

# Projections and Planning Information

**UPDATES  
FOR  
SACRAMENTO COUNTY**

Replace Module D: Projections

**EMPLOYMENT DEVELOPMENT DEPARTMENT**

**LABOR MARKET INFORMATION DIVISION**

FOR QUESTIONS ABOUT THIS REPORT, CALL (916) 262-2162.



# Table of Contents

## **Module D: Industry and Occupational Projections**

Introduction .....	D-1
Descriptions of Industry and Occupational Tables .....	D-3
Table 1: Employment by Major Industry .....	D-5
Table 2: Industry Employment Projections .....	D-6
Occupational Trends and Outlook .....	D-8
Training Level Definitions .....	D-10
Table 3: Employment by Occupational Group .....	D-11
Table 4: Occupations with the Greatest Job Growth .....	D-12
Table 5: Occupations with the Fastest Job Growth.....	D-14
Table 6: Occupational Employment Projections .....	D-16
Table 7: Occupations with the Most Job Openings .....	D-33
Table 8: Occupations with Projected Job Loss .....	D-35
Appendix .....	End

Standard Industrial Classification Manual (SIC)

Standard Occupational Classification System (SOC)

North American Industry Classification System (NAICS)

Projection Methods and Economic Assumptions

Alphabetical Index of Occupations



# Introduction to Projections

## Using Projections Data

Projections contained in these tables provide information for estimating job opportunities, developing training programs, and gaining insight into employment trends. However, before reaching any final conclusions, users should consider the following:

*Remember that these data are estimates.* They were developed on the assumption that historical trends will continue into the future. However, events may occur during the seven-year projection period that are impossible to predict. Events such as military base closures, major business closures or openings, and natural disasters can have a major impact on employment levels.

*Do not use these projections as your sole source of information.* Use other more recent sources of local economic data to corroborate the projection data. This information may be found in documents such as those published by the EDD's Labor Market Information Division, local chambers of commerce or economic development agencies.

*Projections employment data are annual averages.* These averages may not accurately portray seasonal occupations or industries such as those found in agriculture, retail sales, recreation and construction.

*Employment levels stated reflect workers who are covered by the Unemployment Insurance program.* As a result, industries that are made up largely of individuals who are self-employed will be understated. Examples include industries such as real estate, hair salons and bookkeeping. Occupations such as dental hygienists and consultants will also show an understated level of employment.

## Industry Projections

Projections by industry forecast the anticipated changes within an industry over time. Forecasts are based on past employment trends and then are refined by a review of current economic developments.

Industry employment projections utilize employment data from both the Current Employment Statistics (CES) program and the Employment Payroll (ES202) program. There is a certain amount of error built into both systems. These errors may include employers classified in the wrong industry, incorrect employment levels reported by the employer and employment reported in the wrong county.

If a major industry category shows a decrease in future employment, it may be that only one or two industry components are experiencing the decline and other components are still expected to hire new workers. It is best to investigate all sectors of the industry. For example, retail trade has several components: building materials and garden supplies; general merchandise stores; food stores; automotive dealers and service stations; and apparel and accessory stores, to name a few.

Geographical differences account for differing employment opportunities. If an individual is considering relocating from one area of the state to another, the size of the industry and its expected growth level need to be kept in mind. Small rural counties will not have the same employment possibilities as do the larger metropolitan areas.

## Knowing Future Industry Trends

- helps economic development professionals foster compatible growth and promote an area's strengths.
- helps government agencies, non-profit agencies, researchers and other interested parties formulate plans and proposals.
- helps people seeking work and those doing counseling and/or job placement learn about employment opportunities in various industries.

## Occupational Projections

Projections by occupation estimate the changes in occupational employment over time resulting from industry growth. Changes in the number, size and type of employers within a geographical area will affect the demand for certain occupations. Also, technological advances or changes in laws or regulations may affect the occupational mix.

General changes in the work place affect some occupations. Jobs may be created, eliminated or consolidated due to restructuring or regulations affecting the requirements for the job. For example, personal computers and word processing programs eliminated many typist jobs, but created a need for word processors.

An occupational title does not give details about the occupation. An individual starting a career search may want to look at the various occupations in this module, choose any that are of interest and then do further research. There are other sources of information for

occupations and their specifics, such as skills and educational requirements, hourly earnings, benefits, working conditions and advancement opportunities.

Occupational staffing patterns used for the projections process are developed from the annual OES Survey of employers. The survey utilizes a sample of the entire universe of Unemployment Insurance (UI) covered employers. Because it is a survey, it is important that the following points be considered:

- There is inherent statistical error as a result of both the sampling process and the level of employer response to the survey mailings.
- OES staffing patterns may contain errors due to problems employers may have in completing the survey. These errors typically include: misunderstanding of survey instructions, misinterpretation of occupational definitions and/or titles contained on the forms, and clerical errors in filling out the forms.
- The employer's response to the survey may reflect conditions that are atypical. They may be experiencing a temporary shutdown, seasonal high or low employment, or a temporary increase in demand for their product or service.

Occupational projections data indicate major occupations and which occupations are likely to offer the greatest number of job opportunities. When possible, the user should focus on larger groups rather than specific occupations. Some occupations may not appear in published tables because of the low number of people employed in that area or because of confidentiality concerns.

Although an occupation may be stable and not expected to grow, this does not mean that there are no opportunities for employment. All occupations have turnover opportunities. Individuals change or leave jobs permanently for varying reasons. High turnover, especially in occupations requiring lower skill levels, would mean that there are frequent openings even though there is little or no growth.

Occupational projections data are prepared for employment and training planners, vocational educators, and others who need information on future employment by occupation. The outlook information can be used in making occupational training decisions and career choices. Employers considering expansion or relocation may find the data helpful in understanding the occupational composition and trends in California and its 58 counties.

#### **Additional Sources of Information**

Additional information on economic conditions in a particular area can be accessed through Labor Market Information Division consultants, who provide information about economic activities within the counties they serve, and EDD One Stop locations, where additional publications and information may be obtained. Other sources include:

- Wage And Salary Employment by Industry
- Occupational Outlook Handbook (BLS)
- California Occupational Guides
- California Association for Local Economic Development
- Chambers of Commerce
- Economic Development Organizations
- Newspapers
- Standard Industrial Classification Manual

#### **Automated Access**

Electronic access to current data is available through the EDD's Internet address at:

**[www.calmis.ca.gov](http://www.calmis.ca.gov)**

For information about the Web site or to order publications, please call (916) 262-2162.

# Description of Projection Tables

**Employment** includes nonagricultural wage and salary workers, except for self-employed persons, unpaid family workers, private household workers, and those involved in labor-management trade disputes. An **industry division** refers to a distinct group of private, public or nonprofit enterprises engaged in producing goods or providing services. With the exception of government, industries are classified by the Standard Industrial Classification (SIC) system. Industries are then grouped into ten major categories according to the economic activity involved:

*Agriculture, Forestry, and Fishing* includes establishments primarily engaged in agricultural production, forestry, commercial fishing, hunting and trapping, and related services.

*Mining* includes all establishments involved in the extraction of minerals, crude petroleum and natural gas, including quarrying, milling and related activities.

*Construction* includes establishments engaged in contract construction, including new work, additions, and repairs performed by general and special trade contractors.

*Manufacturing* includes establishments which are usually described as plants, factories or mills engaged in producing or processing nondurable or durable goods. These typically use power-driven machines and material-handling equipment.

*Transportation and Public Utilities* includes enterprises engaged in passenger and freight transportation by surface, water and air, warehousing and other transportation services. It also includes the communications complex of telephone, telegraph, radio and television; and the utilities providing gas, electric and sanitary services.

*Wholesale Trade* includes establishments involved in selling merchandise to industrial, commercial, farm, construction contractors and professional businesses; retailers; or other wholesalers.

*Retail Trade* includes establishments involved in the selling of merchandise for personal or household consumption and rendering services incidental to the sale of goods.

*Finance, Insurance, and Real Estate* includes banks, savings and loan institutions and security and commodity brokerages, insurance agencies and carriers, real estate

sales and management offices, and rental and planning agencies.

**Services** includes establishments such as hotels, laundries, auto repair shops, theaters, legal services, advertising services, private schools and hospitals, and nonprofit organizations which are engaged in rendering a variety of services to individuals and businesses.

**Government** includes legislative, judicial, administrative and regulatory activities of federal, state, local and international governments; and federal, state and local government hospitals and education. Note also, for the federal government sector, employment includes all civilian employees regardless of the activities in which they are engaged.

## Industry Tables

*Employment By Major Industry (Table 1)* This table shows 2001 estimated employment and 2008 projected employment along with the percentage of total employment for each major industry division.

*Employment By Industry (Table 2)* This table shows estimated employment for 2001 and projected employment by industry for 2008. The SIC code for each group is also listed. The "Employment Change" columns provide the projected change in employment between 2001 and 2008 and the percent change or growth rate over the seven-year period.

**Occupations** are classified on the basis of work performed and required skills, education, training, or credentials. Based on the Standard Occupational Classification (SOC) system, workers are classified at four levels of aggregation: major group; minor group; broad occupation; and detailed occupation. All occupations are clustered into one of the following 23 major occupation groups:

- *Management*
- *Business and Financial Operations*
- *Computer and Mathematical*
- *Architecture and Engineering*
- *Life, Physical, and Social Science*
- *Community and Social Services*
- *Legal*

- *Education, Training, and Library*
- *Arts, Design, Entertainment, Sports, and Media*
- *Healthcare Practitioners and Technical*
- *Healthcare Support*
- *Protective Service*
- *Food Preparation and Serving and Serving Related*
- *Building and Grounds Cleaning and Maintenance*
- *Personal Care and Service*
- *Sales and Related*
- *Office and Administrative Support*
- *Farming, Fishing, and Forestry*
- *Construction and Extraction*
- *Installation, Maintenance, and Repair*
- *Production*
- *Transportation and Material Moving Operations*
- *Military Specific Operations*

### **Occupational Tables**

*Employment by Occupational Group (Table 3)* This table shows 2001 and 2008 employment and projected employment for major occupational groups. The "Absolute Change" column gives the number of job opportunities resulting from the creation of new jobs. "Percent Change" shows the percentage change for each occupational group.

*Occupations with the Greatest Job Growth (Table 4)* This table lists the 50 occupations that are projected to register the largest numerical change between 2001 and 2008. In general, these occupations are numerically large. Some have average projected rates of growth, but because of their employment size will add significant numbers of new jobs over the 2001–2008 period.

*Occupations with the Fastest Job Growth (Table 5)* This table lists the 50 occupations with the greatest projected percentage increases, providing a different perspective to future occupational employment changes. Please note that some of these are increasing rapidly from relatively small employment levels and not necessarily found in Table 4.

*Occupational Employment Projections (Table 6)* This table provides occupational detail for up to 800 occupations. Annual average employment in each occupation is shown for 2001 and 2008. The column headed "Number" under

employment change presents the number of job opportunities resulting from the creation of new jobs. The "Percent" column shows the percentage change for each occupation. The next column, "Separations," shows job opportunities that are created by workers leaving the occupation.

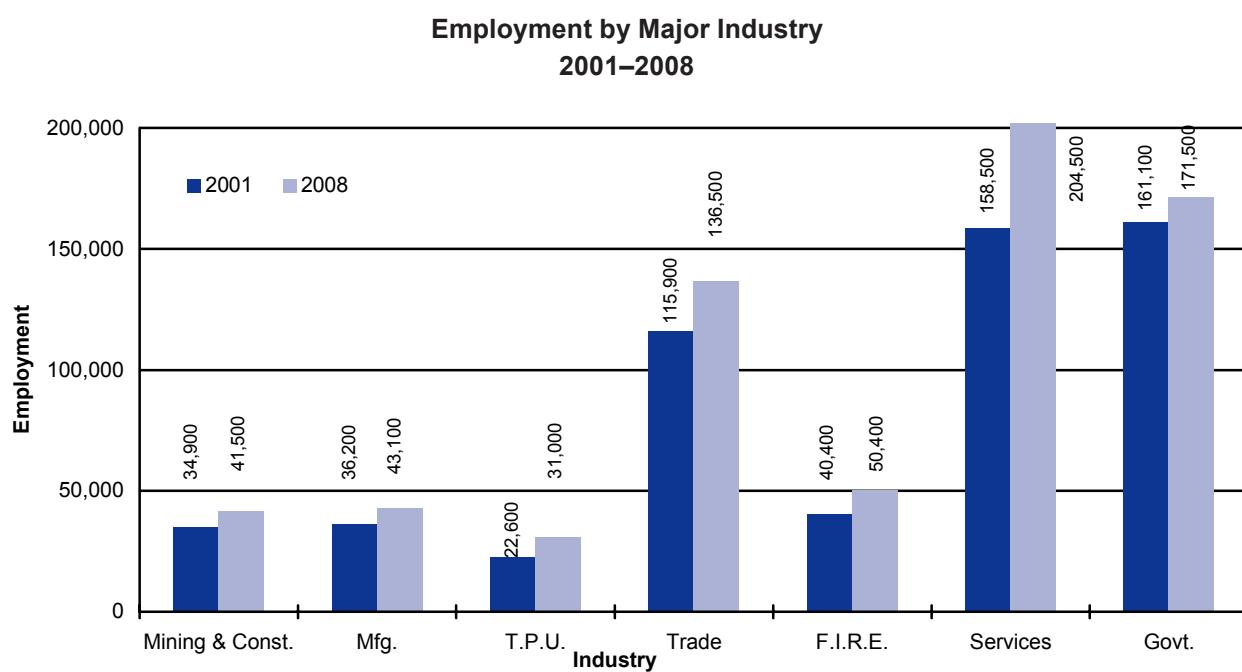
Also included in this table is a codes column, showing the California SOC code for each occupational title. The Alphabetical Index of Occupations section may be used to locate occupations in the detailed table.

*Occupations With The Most Openings (Table 7)* This table lists the occupations projected to register the largest absolute growth and separations between 2001 and 2008.

*Occupations With Projected Job Loss (Table 8)* This table lists the occupations projected to decline over the 2001–2008 period. Declining employment is a sign that the occupation has no growth. However, turnover may result in some job opportunities.

**Table 1: Employment by Major Industry<sup>1</sup>**  
**2001 – 2008**  
**Sacramento County**

Industry	2001 <sup>2</sup>	Percent of Total	2008	Percent of Total
<b>Total Nonfarm</b>	<b>569,500</b>	<b>100.0%</b>	<b>678,600</b>	<b>100.0%</b>
<b>Mining and Construction</b>	<b>34,900</b>	<b>6.1%</b>	<b>41,500</b>	<b>6.1%</b>
<b>Manufacturing</b>	<b>36,200</b>	<b>6.4%</b>	<b>43,100</b>	<b>6.4%</b>
<b>Transportation and Public Utilities</b>	<b>22,600</b>	<b>4.0%</b>	<b>31,000</b>	<b>4.6%</b>
<b>Trade</b>	<b>115,900</b>	<b>20.4%</b>	<b>136,500</b>	<b>20.1%</b>
<b>Finance, Insurance, and Real Estate</b>	<b>40,400</b>	<b>7.1%</b>	<b>50,400</b>	<b>7.4%</b>
<b>Services</b>	<b>158,500</b>	<b>27.8%</b>	<b>204,500</b>	<b>30.1%</b>
<b>Government</b>	<b>161,100</b>	<b>28.3%</b>	<b>171,500</b>	<b>25.3%</b>



<sup>1</sup>Employment and projections contained in these tables are considered estimates (see introduction for a full explanation of data limitations). Employment is reported by place of work and excludes self-employed persons, unpaid family workers, domestics, volunteers, and those involved in labor-management trade disputes. These data are based on 1987 Standard Industrial Classifications. Annual average industry detail may not add up to totals due to independent rounding. Government data include all civilian government employees regardless of the activities in which they are engaged.

<sup>2</sup>March 2001 benchmark.

**Table 2: Industry Employment Projections<sup>1</sup>**  
**2001 – 2008**  
**Sacramento County**

Industry	SIC	Annual Average Employment		Employment Change	
		2001 <sup>2</sup>	2008	Number	Percent
<b>TOTAL NONFARM</b>	<b>074, 075, 078, 10-99 except 88</b>	<b>569,500</b>	<b>678,600</b>	<b>109,100</b>	<b>19.2</b>
<b>GOODS PRODUCING</b>	<b>10-39</b>	<b>71,100</b>	<b>84,600</b>	<b>13,500</b>	<b>19.0</b>
<b>CONSTRUCTION &amp; MINING</b>	<b>10-17</b>	<b>34,900</b>	<b>41,500</b>	<b>6,600</b>	<b>18.9</b>
<b>MANUFACTURING</b>	<b>20-39</b>	<b>36,200</b>	<b>43,100</b>	<b>6,900</b>	<b>19.1</b>
Durable Goods	24,25,32-39	23,300	29,500	6,200	26.6
Lumber and Wood, Except Furniture	24	2,800	3,500	700	25.0
Stone, Clay, and Glass	32	1,200	1,700	500	41.7
Primary and Fabricated Metals	33-34	1,900	2,700	800	42.1
Machinery & Electric Equip.	35-36	11,300	12,800	1,500	13.3
Transportation Equipment	37	2,200	2,900	700	31.8
Other Durable Goods		3,900	5,900	2,000	51.3
Nondurable Goods	20-23,26-31	12,900	13,600	700	5.4
<b>SERVICE PRODUCING</b>	<b>074, 075, 078, 40-99 except 88</b>	<b>498,400</b>	<b>593,900</b>	<b>95,500</b>	<b>19.2</b>
<b>TRANSPORTATION AND PUBLIC UTILITIES</b>	<b>40-42,44-49</b>	<b>22,600</b>	<b>31,000</b>	<b>8,400</b>	<b>37.2</b>
Transportation	40-42,44-47	10,300	13,800	3,500	34.0
Trucking and Warehousing	42	5,300	6,700	1,400	26.4
Air Transportation	45	2,400	4,000	1,600	66.7
Other Transportation		2,700	3,000	300	11.1
Communications and Public Utilities	48,49	12,200	17,300	5,100	41.8
Communications	48	10,200	15,000	4,800	47.1
Electric, Gas & Sanitary Services	49	2,000	2,300	300	15.0
<b>TRADE</b>	<b>50-59</b>	<b>115,900</b>	<b>136,500</b>	<b>20,600</b>	<b>17.8</b>
Wholesale Trade	50,51	22,100	25,300	3,200	14.5
Durable Goods	50	14,700	17,500	2,800	19.0
NonDurable Goods	51	7,500	7,800	300	4.0
Retail Trade	52-59	93,800	111,200	17,400	18.6
General Merchandise	53	9,600	11,500	1,900	19.8
Food Stores	54	12,500	16,000	3,500	28.0
Automotive Dealers & Service	55	10,300	11,500	1,200	11.7
Eating and Drinking Places	58	34,500	41,000	6,500	18.8
Other Retail Trade		26,900	31,200	4,300	16.0
<b>FINANCE, INSURANCE, AND REAL ESTATE</b>	<b>60-65,67</b>	<b>40,400</b>	<b>50,400</b>	<b>10,000</b>	<b>24.8</b>
Finance	60-62,67	16,500	18,600	2,100	12.7
Other Finance, Insurance and Real Estate		23,900	31,800	7,900	33.1

**Table 2: Industry Employment Projections<sup>1</sup>**  
**2001 – 2008**  
**Sacramento County**

Industry	SIC	Annual Average Employment		Employment Change	
		2001 <sup>2</sup>	2008	Number	Percent
<b>SERVICES</b>	<b>074, 075, 078, 70-89 except 88</b>	<b>158,500</b>	<b>204,500</b>	<b>46,000</b>	<b>29.0</b>
Hotels and Other Lodging Places	70	3,500	5,700	2,200	62.9
Personal Services	72	5,000	5,800	800	16.0
Business Services	73	42,000	62,700	20,700	49.3
Amusement, Including Movie	78,79	8,400	10,500	2,100	25.0
Health Services	80	38,600	46,500	7,900	20.5
Private Educational Services	82	6,600	8,300	1,700	25.8
Engineering and Management	87	15,300	19,000	3,700	24.2
Other Services		39,300	46,000	6,700	17.0
<b>GOVERNMENT</b>		<b>161,100</b>	<b>171,500</b>	<b>10,400</b>	<b>6.5</b>
Federal Government		8,900	9,300	400	4.5
State and Local Government		152,200	162,200	10,000	6.6
State Government		85,700	87,000	1,300	1.5
Local Government		66,500	75,200	8,700	13.1
Local Education		40,400	46,700	6,300	15.6
Local Noneducation		26,000	28,500	2,500	9.6

<sup>1</sup>Employment and projections contained in these tables are considered estimates (see introduction for a full explanation of data limitations). Employment is reported by place of work and excludes self-employed persons, unpaid family workers, domestics, volunteers, and those involved in labor-management trade disputes. These data are based on 1987 Standard Industrial Classifications. Annual average industry detail may not add up to totals due to independent rounding. Government data include all civilian government employees regardless of the activities in which they are engaged.

<sup>2</sup>March 2001 benchmark.

# Occupational Trends and Outlook

Job growth or decline is influenced by the overall level of economic activity in a given area; that is, when economic activity refers to the overall economic growth or decline of industries and/or changes in occupation distributions within individual industries. Each area's economic climate influences the growth or decline of occupations that account for a large number of jobs within that area. In contrast, occupations with a small number of workers grow or decline as a result of the growth or decline of their specific industries.

This section provides a discussion of major trends for occupation categories shown in **Table 6: Occupational Employment Projections** (beginning on page D-18). Projected changes in the level of employment in each occupation are an estimate of new job openings expected over a seven-year period. Separations, an estimate of the number of people leaving the workforce or an occupation, accounts for additional job openings. These estimates do not include job openings that are a result of people who change jobs but stay in the same occupation.

## Sacramento County

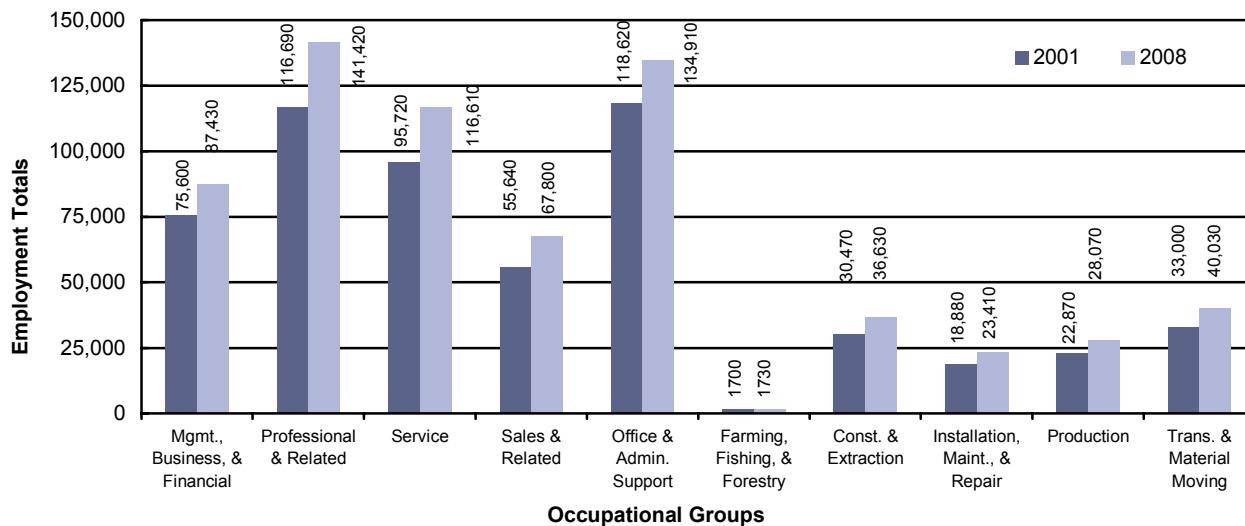
In 2001, Sacramento had a total employment of 569,500 workers. By 2008, employment is projected to grow to 678,600, an increase of 109,100 jobs and an estimated annual growth rate of 2.7 percent, compared to the projected growth rate of 2.2 percent for California as a whole. Separations will add another 102,840 jobs.

Sacramento's largest occupational group in 2001, *office and administrative support occupations*, employed 118,620 persons, and is projected to grow to 134,910 jobs by 2008, an increase of 13.7 percent or 16,290 jobs. *Professional and related occupations*, the second-largest occupational group, employed 116,690 persons in 2001, and is projected to grow to 141,420 jobs by 2008, an increase of 21.2 percent or 24,730 new jobs. This occupational group is also expected to have the greatest growth. *Service occupations*, the third-largest occupational group in 2001, employed 95,720 persons, and is projected to grow to 116,610 jobs by 2008, an increase of 21.8 percent or 20,890 new jobs.

*Installation, maintenance, and repair occupations* is expected to be the fastest growing occupational group, anticipated to grow 24 percent by 2008. *Production occupations*, the second-fastest growing occupational group, is projected to increase 22.7 percent by 2008. *Sales and related occupations*, the third-fastest growing group, is projected to grow by 21.9 percent.

In Sacramento County, the occupation with the greatest growth is *cashiers*, projected to grow by 3,210 jobs during the seven-year projection period (see **Table 4: Occupations with the Greatest Job Growth**). These jobs are found mostly in grocery stores; department stores; gasoline service stations; eating and drinking places; drug stores and proprietary stores; and miscellaneous shopping goods stores (see **Table 2: Industry Employment**)

**Major Occupational Category Growth  
2001–2008**



# Occupational Trends and Outlook

**Projections**). Second, *retail salespersons* is up 3,060 jobs, found mostly in department stores; miscellaneous shopping goods stores; lumber and other building materials; and retail stores. Third, *customer service representatives* will grow by 2,790 jobs, primarily in telephone communications; insurance agents and brokers; investment offices; and miscellaneous business services. The fourth-greatest growing occupation will be *combined food preparation and serving workers (including fast food)*, up 2,650 jobs, and largely employed in eating and drinking places; grocery stores; retail bakeries; and miscellaneous food stores. Fifth, *general office clerks* will grow by 2,620 jobs. These jobs are mostly found in state government; elementary and secondary schools; personnel supply services; and local government.

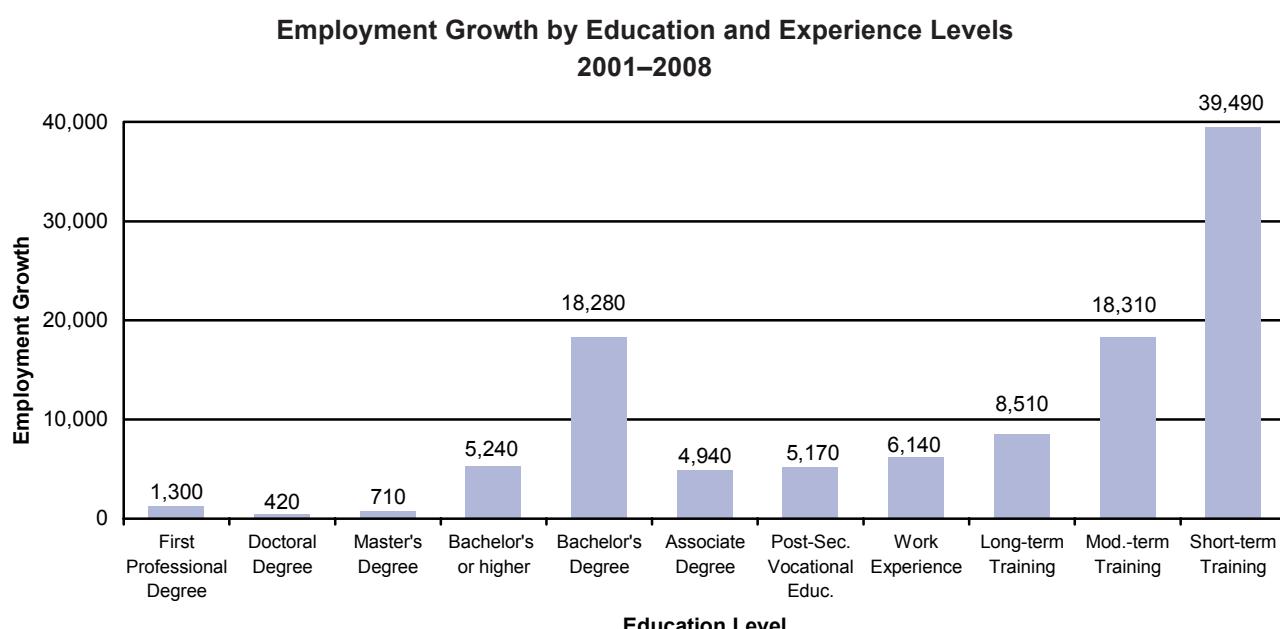
The fastest growing occupation in Sacramento County will be *computer support specialists*, increasing by 70.5 percent (see **Table 5: Occupations with the Fastest Job Growth**). These jobs are found mostly in computer and data processing services; electronic components and accessories; professional and commercial equipment; personnel supply services; and local government. The second-fastest growing occupation will be *hotel, motel, and resort desk clerks*, increasing by 67.5 percent. These jobs are located in the hotels and motels industry. Third, *network and computer systems administrators*, will increase by 60.2 percent, and are largely found in computer and data processing services; electronic components and acces-

sories; elementary and secondary schools; and telephone communications industries. The fourth-fastest growing occupation, *database administrators*, will increase by 59.5 percent, and are located in computer and data processing services; telephone communications; and medical service and health insurance industries. Fifth, *computer software engineers (systems software)*, will increase by 58.3 percent. These jobs will be found mostly in computer and data processing services; state government; and computer and office equipment industries.

## Training

The education and training level with the greatest number of new jobs in Sacramento County will be **short-term on-the-job training**, adding 39,490 new jobs (or 36.1 percent of all new jobs). The second-largest number of new jobs will be entry-level, requiring **moderate-term on-the-job training**, and adding 18,310 (or 16.8 percent) of the new jobs. The third-largest number of new jobs (18,280) require a **bachelor's degree**. The fourth-largest number of new jobs will require **long-term on-the-job training**, accounting for 8,510 (or 7.8 percent) of the new jobs.

The chart below displays the number of new jobs by education and experience levels. For more detailed descriptions of training levels, refer to the definitions on the following page.



# Training Level Definitions

Occupational training and education classifications were developed by the Bureau of Labor Statistics to improve on prior classification systems that did not distinguish between occupations with comparable educational requirements. For example, neither carpenters nor laborers require formal education beyond high school, but the complexity of the work and the training time required results in carpenters being placed in the long-term on-the-job training category and laborers placed in the short-term on-the-job training category. Of course there is more than one way to qualify for a job. In this classification system, the education and training required reflects the manner in which most workers become proficient in that occupation and the preferences of most employers.

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## **First professional degree (1)**

Occupations that require at least two years of full-time academic study beyond a bachelor's degree (for example, law, medicine, dentistry and clergy).

## **Doctoral degree (2)**

Occupations that require at least three years of full-time academic study beyond a bachelor's degree, culminating in a doctoral degree.

## **Master's degree (3)**

Occupations that require the completion of a master's degree program, which is usually one to two years beyond a bachelor's degree.

## **Bachelor's or higher, some work experience (4)**

Occupations that generally require work experience in an occupation requiring a bachelor's or higher degree. Most occupations in this category are managerial occupations that require work experience in a related non-managerial occupation.

## **Bachelor's degree (5)**

Occupations that require the completion of at least 4, but not more than 5 years, of full-time academic study beyond high school resulting in a Bachelor's degree.

## **Associate degree (6)**

Occupations that require the completion of at least 2 years of full-time academic study beyond high school.

## **Post-secondary vocational education (7)**

Occupations that require completion of vocational school training.

## **Work experience (8)**

Occupations that require skills obtained through work experience in a related occupation.

## **Long-term on-the-job training (9)**

Occupations that require more than 12 months of on-the-job training or combined work experience and formal classroom instruction for workers to develop the skills needed for average job performance.

## **Moderate-term on-the-job training (10)**

Occupations in which workers can develop average job performance after 1 to 12 months of combined on-the-job experience and informal training.

## **Short-term on-the-job training (11)**

Occupations in which workers can develop skills needed after a short demonstration or up to one month of on-the-job experience and instruction.

**Table 3: Employment by Occupation Group**  
**2001 – 2008**  
**Sacramento County**

Occupational Group	2001 <sup>1</sup>	Percent of Total	2008	Percent of Total	Absolute Change	Percent Change
Total, All Occupations	569,500	100.0%	678,600	100.0%	109,100	19.2%
Management, Business, and Financial	75,600	13.3%	87,430	12.9%	11,830	15.6%
Professional and Related	116,690	20.5%	141,420	20.8%	24,730	21.2%
Service	95,720	16.8%	116,610	17.2%	20,890	21.8%
Sales and Related	55,640	9.8%	67,800	10.0%	12,160	21.9%
Office and Administrative Support	118,620	20.8%	134,910	19.9%	16,290	13.7%
Farming, Fishing, and Forestry	1,700	0.3%	1,730	0.3%	30	1.8%
Construction and Extraction	30,470	5.4%	36,630	5.4%	6,160	20.2%
Installation, Maintenance, and Repair	18,880	3.3%	23,410	3.4%	4,530	24.0%
Production	22,870	4.0%	28,070	4.1%	5,200	22.7%
Transportation and Material Moving	33,000	5.8%	40,030	5.9%	7,030	21.3%

<sup>1</sup>Total is based on the March 2001 Benchmark.

**Table 4: Occupations with the Greatest Job Growth<sup>1</sup>**  
**2001 – 2008**  
**Sacramento County**

SOC Code	Occupation	Annual Average Employment		Employment Change		BLS Training Level	Education/Experience
		2001 <sup>2</sup>	2008	Number	Percent		
41-2011	Cashiers	13,810	17,020	3,210	23.2	11	Short-Term On-The-Job-Training
41-2031	Retail Salespersons	16,410	19,470	3,060	18.6	11	Short-Term On-The-Job-Training
43-4051	Customer Service Representatives	10,660	13,450	2,790	26.2	10	Moderate-Term On-The-Job-Training
35-3021	Comb Food Prep & Serving Wrkrs, Incl Fast Food	8,980	11,630	2,650	29.5	11	Short-Term On-The-Job-Training
43-9061	Office Clerks, General	22,590	25,210	2,620	11.6	11	Short-Term On-The-Job-Training
33-9032	Security Guards	7,770	10,160	2,390	30.8	11	Short-Term On-The-Job-Training
53-7062	Laborers & Freight, Stock, & Material Movers, Hand	7,960	9,880	1,920	24.1	11	Short-Term On-The-Job-Training
29-1111	Registered Nurses	8,680	10,480	1,800	20.7	6	Associate Degree
37-2011	Janitors & Cleaners, Ex Maids & Housekeep Cleaners	7,290	9,080	1,790	24.6	11	Short-Term On-The-Job-Training
35-3031	Waiters & Waitresses	6,920	8,640	1,720	24.9	11	Short-Term On-The-Job-Training
11-1021	General & Operations Managers	8,870	10,490	1,620	18.3	4	Bachelor's or Higher and Some Work Exp.
15-1032	Computer Software Engineers, Systems Software	2,640	4,180	1,540	58.3	5	Bachelor's Degree
25-9041	Teacher Assistants	6,190	7,590	1,400	22.6	11	Short-Term On-The-Job-Training
43-4171	Receptionists & Information Clerks	5,750	7,070	1,320	23.0	11	Short-Term On-The-Job-Training
43-1011	First-Line Sups/Mgrs of Office & Admin Support	11,070	12,370	1,300	11.7	8	Work Experience
25-2021	Elementary School Teachers, Except Special Ed	7,540	8,830	1,290	17.1	5	Bachelor's Degree
15-1041	Computer Support Specialists	1,660	2,830	1,170	70.5	6	Associate Degree
53-7064	Packers & Packagers, Hand	3,630	4,800	1,170	32.2	11	Short-Term On-The-Job-Training
15-1051	Computer Systems Analysts	4,380	5,520	1,140	26.0	5	Bachelor's Degree
53-3033	Truck Drivers, Light or Delivery Services	4,710	5,840	1,130	24.0	11	Short-Term On-The-Job-Training
47-2031	Carpenters	4,990	6,060	1,070	21.4	9	Long-Term On-The-Job-Training
43-6011	Executive Secretaries & Administrative Assistants	7,720	8,760	1,040	13.5	10	Moderate-Term On-The-Job-Training
41-1011	First-Line Sups/Mgrs of Retail Sales Workers	5,030	6,020	990	19.7	8	Work Experience
37-2012	Maids & Housekeeping Cleaners	2,210	3,130	920	41.6	11	Short-Term On-The-Job-Training
43-5081	Stock Clerks & Order Fillers	4,650	5,570	920	19.8	11	Short-Term On-The-Job-Training
37-3011	Landscaping & Groundskeeping Workers	4,490	5,390	900	20.0	11	Short-Term On-The-Job-Training
49-9042	Maintenance & Repair Workers, General	3,500	4,400	900	25.7	9	Long-Term On-The-Job-Training
53-3032	Truck Drivers, Heavy & Tractor-Trailer	3,650	4,550	900	24.7	10	Moderate-Term On-The-Job-Training
31-9092	Medical Assistants	2,720	3,570	850	31.3	10	Moderate-Term On-The-Job-Training
47-2061	Construction Laborers	3,820	4,620	800	20.9	10	Moderate-Term On-The-Job-Training

**Table 4: Occupations with the Greatest Job Growth<sup>1</sup>**  
**2001 – 2008**  
**Sacramento County**

SOC Code	Occupation	Annual Average Employment		Employment Change		BLS Training Level	Education/Experience
		2001 <sup>2</sup>	2008	Number	Percent		
13-1031	Claims Adjusters, Examiners, & Investigators	2,170	2,950	780	35.9	9	Long-Term On-The-Job-Training
15-1031	Computer Software Engineers, Applications	1,440	2,170	730	50.7	5	Bachelor's Degree
31-1012	Nursing Aides, Orderlies, & Attendants	3,550	4,260	710	20.0	11	Short-Term On-The-Job-Training
47-2111	Electricians	3,100	3,810	710	22.9	9	Long-Term On-The-Job-Training
43-3031	Bookkeeping, Accounting, & Auditing Clerks	8,490	9,190	700	8.2	10	Moderate-Term On-The-Job-Training
13-2011	Accountants & Auditors	4,280	4,960	680	15.9	5	Bachelor's Degree
35-2014	Cooks, Restaurant	2,620	3,300	680	26.0	9	Long-Term On-The-Job-Training
41-3021	Insurance Sales Agents	1,960	2,610	650	33.2	5	Bachelor's Degree
41-4012	Sales Reps, Whisale & Mfg, Ex Tech & Scientific Products	4,830	5,480	650	13.5	10	Moderate-Term On-The-Job-Training
43-6014	Secretaries, Except Legal, Medical, & Executive	6,540	7,190	650	9.9	10	Moderate-Term On-The-Job-Training
21-1093	Social & Human Service Assistants	2,270	2,900	630	27.8	10	Moderate-Term On-The-Job-Training
49-3023	Automotive Service Technicians & Mechanics	3,120	3,740	620	19.9	7	Post-Secondary Vocational Education
25-2031	Secondary School Teachers, Ex Special & Voc Ed	2,910	3,520	610	21.0	5	Bachelor's Degree
35-2021	Food Preparation Workers	2,860	3,460	600	21.0	11	Short-Term On-The-Job-Training
15-1071	Network & Computer Systems Administrators	980	1,570	590	60.2	5	Bachelor's Degree
11-3021	Computer & Information Systems Managers	1,460	2,020	560	38.4	4	Bachelor's or Higher and Some Work Exp.
23-1011	Lawyers	3,640	4,200	560	15.4	1	First Professional Degree
41-2021	Counter & Rental Clerks	2,070	2,630	560	27.1	11	Short-Term On-The-Job-Training
51-2092	Team Assemblers	2,450	2,980	530	21.6	10	Moderate-Term On-The-Job-Training
47-2152	Plumbers, Pipefitters, & Steamfitters	2,260	2,770	510	22.6	9	Long-Term On-The-Job-Training
<b>TOTAL OF THESE OCCUPATIONS</b>		<b>273,290</b>	<b>332,320</b>	<b>59,030</b>	<b>21.6</b>		

<sup>1</sup>Excludes All Other categories.

<sup>2</sup>March 2001 Benchmark.

**Table 5: Occupations with the Fastest Job Growth<sup>1</sup>**  
**2001 – 2008**  
**Sacramento County**

SOC Code	Occupation	Annual Average Employment		Employment Change	Percent	BLS Training Level	Education/Experience
		2001 <sup>2</sup>	2008				
15-1041	Computer Support Specialists	1,660	2,830	1,170	70.5	6	Associate Degree
43-4081	Hotel, Motel, & Resort Desk Clerks	400	670	270	67.5	11	Short-Term On-The-Job-Training
15-1071	Network & Computer Systems Administrators	980	1,570	590	60.2	5	Bachelor's Degree
15-1061	Database Administrators	420	670	250	59.5	5	Bachelor's Degree
15-1032	Computer Software Engineers, Systems Software	2,640	4,180	1,540	58.3	5	Bachelor's Degree
15-1031	Computer Software Engineers, Applications	1,440	2,170	730	50.7	5	Bachelor's Degree
15-1081	Network Systems & Data Communications Analysts	800	1,160	360	45.0	5	Bachelor's Degree
41-4011	Sales Reps, Wholesale & Mfg, Tech & Scientific Products	760	1,100	340	44.7	10	Moderate-Term On-The-Job-Training
37-2012	Maids & Housekeeping Cleaners	2,210	3,130	920	41.6	11	Short-Term On-The-Job-Training
11-2022	Sales Managers	1,080	1,520	440	40.7	4	Bachelor's or Higher and Some Work Exp.
11-9141	Property, Real Estate, & Community Assn Mgrs	910	1,260	350	38.5	5	Bachelor's Degree
11-3021	Computer & Information Systems Managers	1,460	2,020	560	38.4	4	Bachelor's or Higher and Some Work Exp.
13-1031	Claims Adjusters, Examiners, & Investigators	2,170	2,950	780	35.9	9	Long-Term On-The-Job-Training
43-5061	Production, Planning, & Expediting Clerks	980	1,330	350	35.7	11	Short-Term On-The-Job-Training
35-3041	Food Servers, Nonrestaurant	570	770	200	35.1	11	Short-Term On-The-Job-Training
41-3011	Advertising Sales Agents	860	1,160	300	34.9	10	Moderate-Term On-The-Job-Training
27-1024	Graphic Designers	750	1,010	260	34.7	5	Bachelor's Degree
47-2211	Sheet Metal Workers	670	900	230	34.3	10	Moderate-Term On-The-Job-Training
25-2041	Special Ed Teachers, Preschool, Kindergarten, & Elem School	820	1,100	280	34.1	5	Bachelor's Degree
51-4041	Machinists	660	880	220	33.3	9	Long-Term On-The-Job-Training
41-3021	Insurance Sales Agents	1,960	2,610	650	33.2	5	Bachelor's Degree
53-7064	Packers & Packagers, Hand	3,630	4,800	1,170	32.2	11	Short-Term On-The-Job-Training
51-4121	Welders, Cutters, Solderers, & Brazers	720	950	230	31.9	7	Post-Secondary Vocational Education
29-1126	Respiratory Therapists	410	540	130	31.7	6	Associate Degree
29-1051	Pharmacists	1,050	1,380	330	31.4	1	First Professional Degree
31-9092	Medical Assistants	2,720	3,570	850	31.3	10	Moderate-Term On-The-Job-Training
41-9011	Demonstrators & Product Promoters	670	880	210	31.3	10	Moderate-Term On-The-Job-Training
49-2022	Telecomm Equip Installers & Repair, Ex Line Installers	1,640	2,150	510	31.1	7	Post-Secondary Vocational Education
11-2021	Marketing Managers	710	930	220	31.0	4	Bachelor's or Higher and Some Work Exp.
13-2053	Insurance Underwriters	550	720	170	30.9	5	Bachelor's Degree

**Table 5: Occupations with the Fastest Job Growth<sup>1</sup>**  
**2001 – 2008**  
**Sacramento County**

SOC Code	Occupation	Annual Average Employment		Employment Change		BLS Training Level	Education/Experience
		2001 <sup>2</sup>	2008	Number	Percent		
33-9032	Security Guards	7,770	10,160	2,390	30.8	11	Short-Term On-The-Job-Training
29-2052	Pharmacy Technicians	650	850	200	30.8	10	Moderate-Term On-The-Job-Training
17-2072	Electronics Engineers, Except Computer	720	940	220	30.6	5	Bachelor's Degree
31-1011	Home Health Aides	1,240	1,610	370	29.8	11	Short-Term On-The-Job-Training
35-3021	Comb Food Prep & Serving Wrkrs, Incl Fast Food	8,980	11,630	2,650	29.5	11	Short-Term On-The-Job-Training
37-2021	Pest Control Workers	1,090	1,410	320	29.4	10	Moderate-Term On-The-Job-Training
41-9022	Real Estate Sales Agents	960	1,240	280	29.2	7	Post-Secondary Vocational Education
49-9052	Telecommunications Line Installers & Repairers	620	800	180	29.0	9	Long-Term On-The-Job-Training
51-7011	Cabinetmakers & Bench Carpenters	830	1,070	240	28.9	9	Long-Term On-The-Job-Training
43-4181	Reservation & Trans Ticket Agents & Travel Clerks	590	760	170	28.8	11	Short-Term On-The-Job-Training
49-1011	First-Line Sups/Mgrs of Mechanics, Installers	1,620	2,080	460	28.4	8	Work Experience
29-2021	Dental Hygienists	880	1,130	250	28.4	6	Associate Degree
31-9094	Medical Transcriptionists	460	590	130	28.3	7	Post-Secondary Vocational Education
31-9091	Dental Assistants	1,100	1,410	310	28.2	10	Moderate-Term On-The-Job-Training
21-1093	Social & Human Service Assistants	2,270	2,900	630	27.8	10	Moderate-Term On-The-Job-Training
37-1011	First-Line Sups/Mgrs of Housekeep & Janitorial Wrkrs	580	740	160	27.6	8	Work Experience
43-5032	Dispatchers, Except Police, Fire, & Ambulance	620	790	170	27.4	10	Moderate-Term On-The-Job-Training
41-2021	Counter & Rental Clerks	2,070	2,630	560	27.1	11	Short-Term On-The-Job-Training
41-3031	Securities, Commodities, & Financial Svcs Sales Agents	1,290	1,640	350	27.1	5	Bachelor's Degree
49-9021	Heating, Air Conditioning, & Refrig Mechanics & Installers	670	850	180	26.9	9	Long-Term On-The-Job-Training
<b>TOTAL OF THESE OCCUPATIONS</b>		<b>71,310</b>	<b>96,140</b>	<b>24,830</b>	<b>34.8</b>		

<sup>1</sup>Excludes All Other categories and occupations of less than 400 in the year 2001.

<sup>2</sup>March 2001 Benchmark.

**Table 6: Occupational Employment Projections<sup>1,2</sup>**  
**2001 – 2008**  
**Sacramento County**

SOC Code	Occupation	Annual Average Employment		Employment Change		Openings Due to Separations	BLS Training Level	Education/Experience
		2001 <sup>3</sup>	2008	Number	Percent			
00-00000	Total, All Occupations	569,500	678,600	109,100	19.2	102,840		
11-13-0000	Management, Business, & Financial Occupations	75,600	87,430	11,830	15.6	11,140		
11-00000	Management Occupations	31,920	38,180	6,260	19.6	4,330		
11-1011	Chief Executives	2,430	2,780	350	14.4	570	4	Bachelor's or Higher and Some Work Exp.
11-1021	General & Operations Managers	8,870	10,490	1,620	18.3	1,120	4	Bachelor's or Higher and Some Work Exp.
11-1031	Legislators	320	340	20	6.3	70	4	Bachelor's or Higher and Some Work Exp.
11-2011	Advertising & Promotions Managers	340	460	120	35.3	40	4	Bachelor's or Higher and Some Work Exp.
11-2021	Marketing Managers	710	930	220	31.0	80	4	Bachelor's or Higher and Some Work Exp.
11-2022	Sales Managers	1,080	1,520	440	40.7	130	4	Bachelor's or Higher and Some Work Exp.
11-2031	Public Relations Managers	260	330	70	26.9	30	4	Bachelor's or Higher and Some Work Exp.
11-3011	Administrative Services Managers	1,290	1,550	260	20.2	160	4	Bachelor's or Higher and Some Work Exp.
11-3021	Computer & Information Systems Managers	1,460	2,020	560	38.4	200	4	Bachelor's or Higher and Some Work Exp.
11-3031	Financial Managers	2,440	2,910	470	19.3	280	4	Bachelor's or Higher and Some Work Exp.
11-3040	Human Resources Managers	680	790	110	16.2	*		
11-3051	Industrial Production Managers	320	380	60	18.8	40	5	Bachelor's Degree
11-3061	Purchasing Managers	370	410	40	10.8	80	4	Bachelor's or Higher and Some Work Exp.
11-3071	Transportation, Storage, & Distribution Manager	360	410	50	13.9	40	8	Work Experience
11-9021	Construction Managers	1,170	1,410	240	20.5	140	5	Bachelor's Degree
11-9031	Educ Admins, Preschool & Child Care Center	440	520	80	18.2	90	4	Bachelor's or Higher and Some Work Exp.
11-9032	Educ Admins, Elementary & Secondary School	1,020	1,190	170	16.7	200	4	Bachelor's or Higher and Some Work Exp.
11-9041	Engineering Managers	1,140	1,330	190	16.7	140	4	Bachelor's or Higher and Some Work Exp.
11-9051	Food Service Managers	870	1,030	160	18.4	80	8	Work Experience
11-9111	Medical & Health Services Managers	970	1,180	210	21.6	130	4	Bachelor's or Higher and Some Work Exp.
11-9121	Natural Sciences Managers	210	210	0	0.0	30	4	Bachelor's or Higher and Some Work Exp.
11-9141	Property, Real Estate, & Community Assn Mgrs	910	1,260	350	38.5	120	5	Bachelor's Degree
11-9151	Social & Community Service Managers	490	600	110	22.4	70	5	Bachelor's Degree
11-9199	Managers, All Other	3,770	4,130	360	9.5	490	8	Work Experience

**Table 6: Occupational Employment Projections<sup>1,2</sup>**  
**2001 – 2008**  
**Sacramento County**

SOC Code	Occupation	Annual Average Employment		Employment Change		Openings Due to Separations	BLS Training Level	Education/Experience
		2001 <sup>3</sup>	2008	Number	Percent			
<b>13-0000</b>	<b>Business &amp; Financial Operations Occupations</b>	<b>43,680</b>	<b>49,250</b>	<b>5,570</b>	<b>12.8</b>	<b>6,810</b>		
13-1022	Wholesale & Retail Buyers, Except Farm Products	470	480	10	2.1	100	5	Bachelor's Degree
13-1023	Purch Agents, Ex Wholesale, Retail, & Farm Products	770	960	190	24.7	120	5	Bachelor's Degree
13-1031	Claims Adjusters, Examiners, & Investigators	2,170	2,950	780	35.9	200	9	Long-Term On-The-Job-Training
13-1041	Compl Officers, Exc Ag, Const, Hlth & Safety, & Transp	2,640	2,750	110	4.2	470	9	Long-Term On-The-Job-Training
13-1051	Cost Estimators	1,160	1,410	250	21.6	190	5	Bachelor's Degree
13-1071	Employment, Recruitment, & Placement Specialists	1,210	1,230	20	1.7	160	5	Bachelor's Degree
13-1072	Compensation, Benefits, & Job Analysis Specialists	440	500	60	13.6	60	5	Bachelor's Degree
13-1073	Training & Development Specialists	910	1,080	170	18.7	130	5	Bachelor's Degree
13-1111	Management Analysts	1,580	1,920	340	21.5	110	4	Bachelor's or Higher and Some Work Exp.
13-1121	Meeting & Convention Planners	110	150	40	36.4	20	5	Bachelor's Degree
13-1199	Business Operations Specialists, All Other	17,860	19,480	1,620	9.1	3,280	5	Bachelor's Degree
13-2011	Accountants & Auditors	4,280	4,960	680	15.9	470	5	Bachelor's Degree
13-2021	Appraisers & Assessors of Real Estate	370	400	30	8.1	80	7	Post-Secondary Vocational Education
13-2031	Budget Analysts	570	600	30	5.3	80	5	Bachelor's Degree
13-2041	Credit Analysts	400	440	40	10.0	60	5	Bachelor's Degree
13-2051	Financial Analysts	540	650	110	20.4	60	5	Bachelor's Degree
13-2052	Personal Financial Advisors	1,100	1,250	150	13.6	90	5	Bachelor's Degree
13-2053	Insurance Underwriters	550	720	170	30.9	70	5	Bachelor's Degree
13-2071	Loan Counselors	180	200	20	11.1	30	5	Bachelor's Degree
13-2072	Loan Officers	810	940	130	16.0	120	5	Bachelor's Degree
13-2081	Tax Examiners, Collectors, & Revenue Agents	2,210	2,260	50	2.3	410	5	Bachelor's Degree
13-2082	Tax Preparers	630	720	90	14.3	90	10	Moderate-Term On-The-Job-Training
13-2099	Financial Specialists, All Other	2,720	3,200	480	17.6	410	5	Bachelor's Degree
<b>15-29-0000</b>	<b>Professional &amp; Related Occupations</b>	<b>116,690</b>	<b>141,420</b>	<b>24,730</b>	<b>21.2</b>	<b>16,160</b>		
<b>15-0000</b>	<b>Computer &amp; Mathematical Science Occupations</b>	<b>17,510</b>	<b>24,100</b>	<b>6,590</b>	<b>37.6</b>	<b>1,300</b>		
15-1021	Computer Programmers	1,600	1,730	130	8.1	240	5	Bachelor's Degree
15-1031	Computer Software Engineers, Applications	1,440	2,170	730	50.7	80	5	Bachelor's Degree
15-1032	Computer Software Engineers, Systems Software	2,640	4,180	1,540	58.3	150	5	Bachelor's Degree

**Table 6: Occupational Employment Projections<sup>1,2</sup>**  
**2001 – 2008**  
**Sacramento County**

SOC Code	Occupation	Annual Average Employment		Employment Change		Openings Due to Separations	BLS Training Level	Education/Experience
		2001 <sup>3</sup>	2008	Number	Percent			
15-1041	Computer Support Specialists	1,660	2,830	1,170	70.5	60	6	Associate Degree
15-1051	Computer Systems Analysts	4,380	5,520	1,140	26.0	290	5	Bachelor's Degree
15-1061	Database Administrators	420	670	250	59.5	20	5	Bachelor's Degree
15-1071	Network & Computer Systems Administrators	980	1,570	590	60.2	40	5	Bachelor's Degree
15-1081	Network Systems & Data Communications Analysts	800	1,160	360	45.0	30	5	Bachelor's Degree
15-1099	Computer Specialists, All Other	2,450	3,200	750	30.6	170	7	Post-Secondary Vocational Education
15-2031	Operations Research Analysts	1,030	960	-70	-6.8	220	3	Master's Degree
15-2099	Mathematical Science Occupations, All Other	110	110	0	0.0	0	3	Master's Degree
<b>17-0000</b>	<b>Architecture &amp; Engineering Occupations</b>	<b>14,950</b>	<b>16,690</b>	<b>1,740</b>	<b>11.6</b>	<b>2,090</b>		
17-1011	Architects, Except Landscape & Naval	300	320	20	6.7	10	5	Bachelor's Degree
17-1012	Landscape Architects	180	190	10	5.6	10	5	Bachelor's Degree
17-1022	Surveyors	430	450	20	4.7	90	5	Bachelor's Degree
17-2041	Chemical Engineers	140	160	20	14.3	20	5	Bachelor's Degree
17-2051	Civil Engineers	3,810	3,840	30	0.8	410	5	Bachelor's Degree
17-2061	Computer Hardware Engineers	1,320	1,400	80	6.1	130	5	Bachelor's Degree
17-2071	Electrical Engineers	860	1,070	210	24.4	120	5	Bachelor's Degree
17-2072	Electronics Engineers, Except Computer	720	940	220	30.6	110	5	Bachelor's Degree
17-2081	Environmental Engineers	630	720	90	14.3	90	5	Bachelor's Degree
17-2111	Hlth & Safety Engrs, Excl Mining Safety Engrs & Inspectors	190	200	10	5.3	20	5	Bachelor's Degree
17-2112	Industrial Engineers	270	330	60	22.2	30	5	Bachelor's Degree
17-2131	Materials Engineers	110	100	-10	-9.1	20	5	Bachelor's Degree
17-2141	Mechanical Engineers	550	630	80	14.5	120	5	Bachelor's Degree
17-2199	Engineers, All Other	1,510	1,580	70	4.6	210	5	Bachelor's Degree
17-3011	Architectural & Civil Drafters	590	660	70	11.9	130	7	Post-Secondary Vocational Education
17-3012	Electrical & Electronics Drafters	280	380	100	35.7	70	7	Post-Secondary Vocational Education
17-3022	Civil Engineering Technicians	570	620	50	8.8	80	6	Associate Degree
17-3023	Electrical & Electronic Engineering Technicians	1,090	1,350	260	23.9	170	6	Associate Degree
17-3024	Electro-Mechanical Technicians	140	170	30	21.4	20	6	Associate Degree
17-3026	Industrial Engineering Technicians	150	170	20	13.3	20	6	Associate Degree
17-3027	Mechanical Engineering Technicians	150	200	50	33.3	20	6	Associate Degree
17-3031	Surveying & Mapping Technicians	300	320	20	6.7	70	10	Moderate-Term On-The-Job-Training
17-3099	Drafters, Engineering, & Map Technicians, All Other	660	890	230	34.8	120	6	Associate Degree

**Table 6: Occupational Employment Projections<sup>1,2</sup>**  
**2001 – 2008**  
**Sacramento County**

SOC Code	Occupation	Annual Average Employment		Employment Change		Openings Due to Separations	BLS Training Level	Education/Experience
		2001 <sup>3</sup>	2008	Number	Percent			
<b>19-0000</b>	<b>Life, Physical, &amp; Social Science Occupations</b>	<b>5,930</b>	<b>6,910</b>	<b>980</b>	<b>16.5</b>	<b>1,290</b>		
19-1010	Agricultural & Food Scientists	170	180	10	5.9	*		
19-1023	Zoologists & Wildlife Biologists	120	130	10	8.3	30	2	Doctoral Degree
19-1031	Conservation Scientists	300	330	30	10.0	70	5	Bachelor's Degree
19-1099	Life Scientists, All Other	620	690	70	11.3	150	2	Doctoral Degree
19-2031	Chemists	130	150	20	15.4	30	5	Bachelor's Degree
19-2041	Environmental Scientists & Specialists, Incl Health Geoscientists, Except Hydrologists & Geographers	550	600	50	9.1	130	5	Bachelor's Degree
19-2042	Hydrologists	320	350	30	9.4	80	5	Bachelor's Degree
19-2043	Physical Scientists, All Other	200	230	30	15.0	50	5	Bachelor's Degree
19-2099	Market Research Analysts	480	500	20	4.2	140	5	Bachelor's Degree
19-3021	Survey Researchers	520	630	110	21.2	90	5	Bachelor's Degree
19-3022	Clinical, Counseling, & School Psychologists	370	720	350	94.6	80	5	Bachelor's Degree
19-3031	Urban & Regional Planners	510	570	60	11.8	90	3	Master's Degree
19-3051	Social Scientists & Related Workers, All Other	160	180	20	12.5	30	3	Master's Degree
19-3099	Agricultural & Food Science Technicians	520	570	50	9.6	90	3	Master's Degree
19-4011	Environmental Science & Protection Techs, Incl Health Forest & Conservation Technicians	180	190	10	5.6	30	6	Associate Degree
19-4091	Life, Physical, & Social Science Techs, All Other	110	120	10	9.1	30	6	Associate Degree
19-4093		130	140	10	7.7	40	6	Associate Degree
19-4099		540	630	90	16.7	130	6	Associate Degree
<b>21-0000</b>	<b>Community &amp; Social Services Occupations</b>	<b>8,420</b>	<b>9,980</b>	<b>1,560</b>	<b>18.5</b>	<b>1,040</b>		
21-1011	Substance Abuse & Behavioral Disorder Counselors	160	190	30	18.8	20	3	Master's Degree
21-1012	Educational, Vocational, & School Counselors	690	840	150	21.7	110	3	Master's Degree
21-1014	Mental Health Counselors	360	400	40	11.1	50	3	Master's Degree
21-1015	Rehabilitation Counselors	180	200	20	11.1	30	3	Master's Degree
21-1021	Child, Family, & School Social Workers	1,200	1,400	200	16.7	100	5	Bachelor's Degree
21-1022	Medical & Public Health Social Workers	410	470	60	14.6	30	5	Bachelor's Degree
21-1091	Health Educators	510	560	50	9.8	50	3	Master's Degree
21-1092	Probation Officers & Correctional Treatment Specialists	660	720	60	9.1	70	5	Bachelor's Degree
21-1093	Social & Human Service Assistants	2,270	2,900	630	27.8	260	10	Moderate-Term On-The-Job-Training
21-1099	Community & Social Service Specialists, All Other Clergy	110	120	10	9.1	20	5	Bachelor's Degree
21-2011		720	850	130	18.1	150	1	First Professional Degree

**Table 6: Occupational Employment Projections<sup>1,2</sup>**  
**2001 – 2008**  
**Sacramento County**

SOC Code	Occupation	Annual Average Employment		Employment Change		Openings Due to Separations	BLS Training Level	Education/Experience
		2001 <sup>3</sup>	2008	Number	Percent			
21-2021	Directors, Religious Activities & Education Counselors, Social & Religious Workers, All Other	130	160	30	23.1	20	5	Bachelor's Degree
21-9099		1,020	1,170	150	14.7	130	5	Bachelor's Degree
<b>23-0000</b>	<b>Legal Occupations</b>	<b>6,040</b>	<b>6,970</b>	<b>930</b>	<b>15.4</b>	<b>380</b>		
23-1011	Lawyers	3,640	4,200	560	15.4	180	1	First Professional Degree
23-1021	Admin Law Judges, Adjudicators, & Hearing Officers	260	250	-10	-3.8	50	4	Bachelor's or Higher and Some Work Exp.
23-1023	Judges, Magistrate Judges, & Magistrates	130	130	0	0.0	30	4	Bachelor's or Higher and Some Work Exp.
23-2011	Paralegals & Legal Assistants	700	810	110	15.7	30	6	Associate Degree
23-2092	Law Clerks	240	250	10	4.2	20	5	Bachelor's Degree
23-2093	Title Examiners, Abstractors, & Searchers	320	390	70	21.9	20	10	Moderate-Term On-The-Job-Training
23-9099	Legal & Related Workers, All Other	720	910	190	26.4	50	5	Bachelor's Degree
<b>25-0000</b>	<b>Education, Training, &amp; Library Occupations</b>	<b>33,530</b>	<b>39,880</b>	<b>6,350</b>	<b>18.9</b>	<b>5,220</b>		
25-1191	Graduate Teaching Assistants	390	470	80	20.5	80	5	Bachelor's Degree
25-1194	Vocational Education Teachers, Postsecondary	600	740	140	23.3	130	8	Work Experience
25-1199	Postsecondary Teachers, All Other	1,550	1,890	340	21.9	290	2	Doctoral Degree
25-2011	Preschool Teachers, Except Special Education	1,670	1,830	160	9.6	150	5	Bachelor's Degree
25-2012	Kindergarten Teachers, Except Special Education	1,190	1,400	210	17.6	110	5	Bachelor's Degree
25-2021	Elementary School Teachers, Except Special Ed	7,540	8,830	1,290	17.1	1,280	5	Bachelor's Degree
25-2022	Mid School Teachers, Ex Special & Vocational Ed	3,030	3,480	450	14.9	510	5	Bachelor's Degree
25-2031	Secondary School Teachers, Ex Special & Voc Ed	2,910	3,520	610	21.0	680	5	Bachelor's Degree
25-2032	Vocational Education Teachers, Secondary School	150	170	20	13.3	30	5	Bachelor's Degree
25-2041	Special Ed Teachers, Preschool, Kindergarten, & Elem Scho	820	1,100	280	34.1	80	5	Bachelor's Degree
25-2042	Special Education Teachers, Middle School	310	390	80	25.8	30	5	Bachelor's Degree
25-2043	Special Education Teachers, Secondary School	240	300	60	25.0	20	5	Bachelor's Degree
25-3011	Adult Literacy, Remedial Ed, & GED Teachers & Instructors	270	320	50	18.5	20	5	Bachelor's Degree
25-3021	Self-Enrichment Education Teachers	1,050	1,300	250	23.8	80	8	Work Experience
25-3999	Teachers, Primary, Secondary, & Adult, All Other	2,730	3,310	580	21.2	210	5	Bachelor's Degree
25-4010	Archivists	100	100	0	0.0	*	3	Master's Degree
25-4021	Librarians	670	730	60	9.0	100	3	Master's Degree

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		2001 <sup>3</sup>	2008	Number	Percent			
25-4031	Library Technicians	790	920	130	16.5	270	11	Short-Term On-The-Job-Training
25-9031	Instructional Coordinators	820	910	90	11.0	90	3	Master's Degree
25-9041	Teacher Assistants	6,190	7,590	1,400	22.6	990	11	Short-Term On-The-Job-Training
25-9099	Education, Training, & Library Workers, All Other	420	480	60	14.3	50	5	Bachelor's Degree
<b>27-0000</b>	<b>Arts, Design, Entertainment, Sports, &amp; Media Occs</b>	<b>7,010</b>	<b>8,770</b>	<b>1,760</b>	<b>25.1</b>	<b>960</b>		
27-1023	Floral Designers	170	180	10	5.9	10	10	Moderate-Term On-The-Job-Training
27-1024	Graphic Designers	750	1,010	260	34.7	60	5	Bachelor's Degree
27-1025	Interior Designers	160	170	10	6.3	10	5	Bachelor's Degree
27-1026	Merchandise Displayers & Window Trimmers	230	270	40	17.4	20	10	Moderate-Term On-The-Job-Training
27-1029	Designers, All Other	290	350	60	20.7	30	5	Bachelor's Degree
27-2012	Producers & Directors	170	260	90	52.9	30	4	Bachelor's or Higher and Some Work Exp.
27-2022	Coaches & Scouts	260	320	60	23.1	40	9	Long-Term On-The-Job-Training
27-2023	Umpires, Referees, & Other Sports Officials	120	150	30	25.0	20	9	Long-Term On-The-Job-Training
27-2032	Choreographers	140	190	50	35.7	20	8	Work Experience
27-2042	Musicians & Singers	290	370	80	27.6	40	9	Long-Term On-The-Job-Training
27-2099	Entertainers & Performers, Sports & Related Workers	310	380	70	22.6	50	9	Long-Term On-The-Job-Training
27-3010	Announcers	250	320	70	28.0	*		
27-3020	News Analysts, Reporters & Correspondents	260	310	50	19.2			
27-3031	Public Relations Specialists	1,490	1,810	320	21.5	190	5	Bachelor's Degree
27-3041	Editors	400	500	100	25.0	100	5	Bachelor's Degree
27-3042	Technical Writers	310	370	60	19.4	70	5	Bachelor's Degree
27-3099	Media & Communication Workers, All Other	310	380	70	22.6	40	9	Long-Term On-The-Job-Training
27-4011	Audio & Video Equipment Technicians	360	490	130	36.1	90	9	Long-Term On-The-Job-Training
27-4012	Broadcast Technicians	170	230	60	35.3	40	7	Post-Secondary Vocational Education
27-4021	Photographers	320	380	60	18.8	50	9	Long-Term On-The-Job-Training
27-4099	Media & Communication Equipment Workers, All Other	250	330	80	32.0	50	10	Moderate-Term On-The-Job-Training
<b>29-0000</b>	<b>Healthcare Practitioners &amp; Technical Occupations</b>	<b>23,300</b>	<b>28,120</b>	<b>4,820</b>	<b>20.7</b>	<b>3,880</b>		
29-1020	Dentists	440	500	60	13.6	*		
29-1031	Dietitians & Nutritionists	200	210	10	5.0	40	5	Bachelor's Degree

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		2001 <sup>3</sup>	2008	Number	Percent			
29-1051	Pharmacists	1,050	1,380	330	31.4	250	1	First Professional Degree
29-1061	Anesthesiologists	120	140	20	16.7	10	1	First Professional Degree
29-1062	Family & General Practitioners	220	250	30	13.6	20	1	First Professional Degree
29-1067	Surgeons	520	570	50	9.6	60	1	First Professional Degree
29-1071	Physician Assistants	220	300	80	36.4	40	5	Bachelor's Degree
29-1111	Registered Nurses	8,680	10,480	1,800	20.7	1,330	6	Associate Degree
29-1121	Audiologists	100	130	30	30.0	20	3	Master's Degree
29-1122	Occupational Therapists	170	200	30	17.6	30	5	Bachelor's Degree
29-1123	Physical Therapists	560	680	120	21.4	110	3	Master's Degree
29-1126	Respiratory Therapists	410	540	130	31.7	80	6	Associate Degree
29-1127	Speech-Language Pathologists	210	270	60	28.6	40	3	Master's Degree
29-1131	Veterinarians	180	210	30	16.7	30	1	First Professional Degree
29-1199	Health Diagnosing & Treating Practitioners, All Other	870	1,020	150	17.2	130	1	First Professional Degree
29-2011	Medical & Clinical Laboratory Technologists	490	580	90	18.4	90	5	Bachelor's Degree
29-2012	Medical & Clinical Laboratory Technicians	440	500	60	13.6	80	6	Associate Degree
29-2021	Dental Hygienists	880	1,130	250	28.4	100	6	Associate Degree
29-2031	Cardiovascular Technologists & Technicians	150	190	40	26.7	30	6	Associate Degree
29-2032	Diagnostic Medical Sonographers	110	130	20	18.2	20	6	Associate Degree
29-2034	Radiologic Technologists & Technicians	710	830	120	16.9	120	6	Associate Degree
29-2041	Emergency Medical Technicians & Paramedics	220	280	60	27.3	40	7	Post-Secondary Vocational Education
29-2052	Pharmacy Technicians	650	850	200	30.8	140	10	Moderate-Term On-The-Job-Training
29-2055	Surgical Technologists	840	1,020	180	21.4	170	7	Post-Secondary Vocational Education
29-2056	Veterinary Technologists & Technicians	320	370	50	15.6	60	6	Associate Degree
29-2061	Licensed Practical & Licensed Vocational Nurses	2,260	2,720	460	20.4	440	7	Post-Secondary Vocational Education
29-2071	Medical Records & Health Information Technician	310	390	80	25.8	50	6	Associate Degree
29-2081	Opticians, Dispensing	180	210	30	16.7	30	9	Long-Term On-The-Job-Training
29-2099	Health Technologists & Technicians, All Other	250	280	30	12.0	40	5	Bachelor's Degree
29-9199	Health Professionals & Technicians, All Other	1,460	1,670	210	14.4	280	6	Associate Degree
<b>31-39-0000</b>	<b>Service Occupations</b>	<b>95,720</b>	<b>116,610</b>	<b>20,890</b>	<b>21.8</b>	<b>24,780</b>		
<b>31-0000</b>	<b>Healthcare Support Occupations</b>	<b>11,270</b>	<b>14,150</b>	<b>2,880</b>	<b>25.6</b>	<b>1,780</b>		
31-1011	Home Health Aides	1,240	1,610	370	29.8	130	11	Short-Term On-The-Job-Training
31-1012	Nursing Aides, Orderlies, & Attendants	3,550	4,260	710	20.0	340	11	Short-Term On-The-Job-Training

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**Sacramento County**

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		2001 <sup>3</sup>	2008	Number	Percent			
31-2021	Physical Therapist Assistants	180	230	50	27.8	40	6	Associate Degree
31-2022	Physical Therapist Aides	160	210	50	31.3	40	11	Short-Term On-The-Job-Training
31-9011	Massage Therapists	250	310	60	24.0	50	7	Post-Secondary Vocational Education
31-9091	Dental Assistants	1,100	1,410	310	28.2	160	10	Moderate-Term On-The-Job-Training
31-9092	Medical Assistants	2,720	3,570	850	31.3	580	10	Moderate-Term On-The-Job-Training
31-9093	Medical Equipment Preparers	180	200	20	11.1	40	11	Short-Term On-The-Job-Training
31-9094	Medical Transcriptionists	460	590	130	28.3	100	7	Post-Secondary Vocational Education
31-9095	Pharmacy Aides	440	550	110	25.0	90	11	Short-Term On-The-Job-Training
31-9096	Veterinary Assistants & Lab Animal Caretakers	180	210	30	16.7	40	11	Short-Term On-The-Job-Training
31-9099	Healthcare Support Workers, All Other	810	1,000	190	23.5	170	11	Short-Term On-The-Job-Training
<b>33-0000</b>	<b>Protective Service Occupations</b>	<b>19,040</b>	<b>23,150</b>	<b>4,110</b>	<b>21.6</b>	<b>4,230</b>		
33-1011	First-Line Sups/Managers of Correctional Officers	470	540	70	14.9	60	8	Work Experience
33-1012	First-Line Sups/Managers of Police & Detectives	710	780	70	9.9	140	8	Work Experience
33-1021	First-Line Sups/Mgrs of Fire Fighting & Prevention	380	400	20	5.3	90	8	Work Experience
33-1099	First-Line Sups/Mgrs. Protective Serv Wrks, All Other	400	580	180	45.0	100	8	Work Experience
33-2011	Fire Fighters	1,460	1,570	110	7.5	270	9	Long-Term On-The-Job-Training
33-3012	Correctional Officers & Jailers	2,520	3,020	500	19.8	470	10	Moderate-Term On-The-Job-Training
33-3021	Detectives & Criminal Investigators	760	830	70	9.2	120	8	Work Experience
33-3051	Police & Sheriff's Patrol Officers	2,720	3,090	370	13.6	420	9	Long-Term On-The-Job-Training
33-9021	Private Detectives & Investigators	110	210	100	90.9	30	8	Work Experience
33-9032	Security Guards	7,770	10,160	2,390	30.8	1,730	11	Short-Term On-The-Job-Training
33-9091	Crossing Guards	550	610	60	10.9	140	11	Short-Term On-The-Job-Training
33-9099	Protective Service Workers, All Other	1,190	1,360	170	14.3	660	11	Short-Term On-The-Job-Training
<b>35-0000</b>	<b>Food Preparation &amp; Serving Related Occupations</b>	<b>38,820</b>	<b>46,460</b>	<b>7,640</b>	<b>19.7</b>	<b>13,850</b>		
35-1011	Chefs & Head Cooks	380	430	50	13.2	90	7	Post-Secondary Vocational Education
35-1012	First-Line Sups/Mgrs of Food Prep & Serving Wrks	2,590	3,020	430	16.6	500	8	Work Experience

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**2001 – 2008**  
**Sacramento County**

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		2001 <sup>3</sup>	2008	Number	Percent			
35-2011	Cooks, Fast Food	2,300	2,460	160	7.0	490	11	Short-Term On-The-Job-Training
35-2012	Cooks, Institution & Cafeteria	1,900	2,040	140	7.4	410	9	Long-Term On-The-Job-Training
35-2014	Cooks, Restaurant	2,620	3,300	680	26.0	610	9	Long-Term On-The-Job-Training
35-2015	Cooks, Short Order	1,530	1,680	150	9.8	330	11	Short-Term On-The-Job-Training
35-2021	Food Preparation Workers	2,860	3,460	600	21.0	890	11	Short-Term On-The-Job-Training
35-3011	Bartenders	1,180	1,400	220	18.6	360	11	Short-Term On-The-Job-Training
35-3021	Comb Food Prep & Serving Wrks, Incl Fast Food	8,980	11,630	2,650	29.5	4,580	11	Short-Term On-The-Job-Training
35-3022	Counter Attends, Cafe, Food Concess, & Coffee Shop	1,100	1,360	260	23.6	730	11	Short-Term On-The-Job-Training
35-3031	Waiters & Waitresses	6,920	8,640	1,720	24.9	3,100	11	Short-Term On-The-Job-Training
35-3041	Food Servers, Nonrestaurant	570	770	200	35.1	220	11	Short-Term On-The-Job-Training
35-9011	Dining Rm & Cafeteria Attendants & Bartender Help	2,080	2,130	50	2.4	520	11	Short-Term On-The-Job-Training
35-9021	Dishwashers	2,420	2,510	90	3.7	690	11	Short-Term On-The-Job-Training
35-9031	Hosts & Hostess, Restaurant, Lounge, & Coffee Shop	1,250	1,480	230	18.4	290	11	Short-Term On-The-Job-Training
35-9099	Food Prep & Serving Related Workers, All Other	140	150	10	7.1	40	11	Short-Term On-The-Job-Training
37-0000	<b>Building &amp; Grounds Cleaning &amp; Maintenance Occs</b>	<b>16,570</b>	<b>20,760</b>	<b>4,190</b>	<b>25.3</b>	<b>2,690</b>		
37-1011	First-Line Sups/Mgrs of Housekeep & Janitor Wrks	580	740	160	27.6	130	8	Work Experience
37-1012	First-Line Sups/Mgrs of Lndscp, Lwn Svc, & Grndskeeping Wrks	580	620	40	6.9	20	8	Work Experience
37-2011	Janitors & Clean. Ex Maids & Housekeep Cleaners	7,290	9,080	1,790	24.6	1,030	11	Short-Term On-The-Job-Training
37-2012	Maids & Housekeeping Cleaners	2,210	3,130	920	41.6	410	11	Short-Term On-The-Job-Training
37-2021	Pest Control Workers	1,090	1,410	320	29.4	180	10	Moderate-Term On-The-Job-Training
37-3011	Landscaping & Groundskeeping Workers	4,490	5,390	900	20.0	870	11	Short-Term On-The-Job-Training
37-9099	Bldng & Grounds Cleaning & Maint Wrks, All Other	330	390	60	18.2	50	11	Short-Term On-The-Job-Training
39-0000	<b>Personal Care &amp; Service Occupations</b>	<b>10,020</b>	<b>12,090</b>	<b>2,070</b>	<b>20.7</b>	<b>2,230</b>		
39-1021	First-Line Sups/Mgrs of Personal Service Workers	340	410	70	20.6	70	8	Work Experience
39-2021	Nonfarm Animal Caretakers	230	270	40	17.4	40	11	Short-Term On-The-Job-Training
39-3011	Gaming Dealers	100	130	30	30.0	30	7	Post-Secondary Vocational Education
39-3031	Ushers, Lobby Attendants, & Ticket Takers	550	660	110	20.0	370	11	Short-Term On-The-Job-Training

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**Sacramento County**

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		2001 <sup>3</sup>	2008	Number	Percent			
39-3091	Amusement & Recreation Attendants	910	1,090	180	19.8	250	11	Short-Term On-The-Job-Training
39-3099	Entertainment Attendants & Rel Workers, All Other	170	210	40	23.5	50	11	Short-Term On-The-Job-Training
39-5012	Hairdressers, Hairstylists, & Cosmetologists	840	950	110	13.1	150	7	Post-Secondary Vocational Education
39-6021	Tour Guides & Escorts	230	260	30	13.0	50	10	Moderate-Term On-The-Job-Training
39-9011	Child Care Workers	1,530	1,900	370	24.2	420	11	Short-Term On-The-Job-Training
39-9021	Personal & Home Care Aides	1,480	1,860	380	25.7	180	11	Short-Term On-The-Job-Training
39-9031	Fitness Trainers & Aerobics Instructors	1,090	1,360	270	24.8	180	7	Post-Secondary Vocational Education
39-9032	Recreation Workers	1,910	2,150	240	12.6	290	5	Bachelor's Degree
39-9099	Personal Care & Service Workers, All Other	610	810	200	32.8	140	11	Short-Term On-The-Job-Training
<b>41-0000</b>	<b>Sales &amp; Related Occupations</b>	<b>55,640</b>	<b>67,800</b>	<b>12,160</b>	<b>21.9</b>	<b>14,640</b>		
	First-Line Sups/Mgrs of Retail Sales Workers	5,030	6,020	990	19.7	550	8	Work Experience
41-1011	First-Line Sups/Mgrs of Non-Retail Sales Workers	1,050	1,200	150	14.3	110	8	Work Experience
41-1012	Cashiers	13,810	17,020	3,210	23.2	5,130	11	Short-Term On-The-Job-Training
41-2011	Counter & Rental Clerks	2,070	2,630	560	27.1	770	11	Short-Term On-The-Job-Training
41-2021	Parts Salespersons	1,090	1,100	10	0.9	230	10	Moderate-Term On-The-Job-Training
41-2022	Retail Salespersons	16,410	19,470	3,060	18.6	4,900	11	Short-Term On-The-Job-Training
41-2031	Advertising Sales Agents	860	1,160	300	34.9	140	10	Moderate-Term On-The-Job-Training
41-3011	Insurance Sales Agents	1,960	2,610	650	33.2	410	5	Bachelor's Degree
41-3021	Securities, Commodities, & Financial Serv Sales	1,290	1,640	350	27.1	80	5	Bachelor's Degree
41-3031	Travel Agents	200	230	30	15.0	40	7	Post-Secondary Vocational Education
41-3041	Sales Reps, Wholesale & Mfg, Tech & Scientific Products	760	1,100	340	44.7	180	10	Moderate-Term On-The-Job-Training
41-4011	Sales Reps, Wholesale & Mfg, Ex Tech & Scientific Products	4,830	5,480	650	13.5	980	10	Moderate-Term On-The-Job-Training
41-4012	Demonstrators & Product Promoters	670	880	210	31.3	180	10	Moderate-Term On-The-Job-Training
41-9011	Real Estate Brokers	130	170	40	30.8	20	8	Work Experience
41-9022	Real Estate Sales Agents	960	1,240	280	29.2	130	7	Post-Secondary Vocational Education
41-9031	Sales Engineers	400	480	80	20.0	80	5	Bachelor's Degree
41-9041	Telemarketers	1,470	1,790	320	21.8	240	11	Short-Term On-The-Job-Training
41-9099	Sales & Related Workers, All Other	2,640	3,570	930	35.2	470	10	Moderate-Term On-The-Job-Training

**Table 6: Occupational Employment Projections<sup>1,2</sup>**  
**2001 – 2008**  
**Sacramento County**

SOC Code	Occupation	Annual Average Employment		Employment Change		Openings Due to Separations	BLS Training Level	Education/Experience
		2001 <sup>3</sup>	2008	Number	Percent			
43-0000	<b>Office &amp; Administrative Support Occupations</b>	118,620	134,910	16,290	13.7	17,650		
43-1011	First-Line Sups/Mgrs of Office & Admin Support	11,070	12,370	1,300	11.7	1,550	8	Work Experience
43-2011	Switchboard Operators, Including Answering Service	870	900	30	3.4	180	11	Short-Term On-The-Job-Training
43-2021	Telephone Operators	480	490	10	2.1	100	11	Short-Term On-The-Job-Training
43-2099	Communications Equipment Operators, All Other	110	90	-20	-18.2	20	11	Short-Term On-The-Job-Training
43-3011	Bill & Account Collectors	1,440	1,780	340	23.6	280	11	Short-Term On-The-Job-Training
43-3021	Billing & Posting Clerks & Machine Operators	1,870	2,130	260	13.9	340	11	Short-Term On-The-Job-Training
43-3031	Bookkeeping, Accounting, & Auditing Clerks	8,490	9,190	700	8.2	1,170	10	Moderate-Term On-The-Job-Training
43-3051	Payroll & Timekeeping Clerks	720	780	60	8.3	150	11	Short-Term On-The-Job-Training
43-3061	Procurement Clerks	190	190	0	0.0	30	11	Short-Term On-The-Job-Training
43-3071	Tellers	1,870	2,010	140	7.5	670	11	Short-Term On-The-Job-Training
43-4011	Brokerage Clerks	270	290	20	7.4	30	10	Moderate-Term On-The-Job-Training
43-4021	Correspondence Clerks	120	150	30	25.0	30	11	Short-Term On-The-Job-Training
43-4031	Court, Municipal, & License Clerks	230	250	20	8.7	30	11	Short-Term On-The-Job-Training
43-4041	Credit Authorizers, Checkers, & Clerks	280	320	40	14.3	20	11	Short-Term On-The-Job-Training
43-4051	Customer Service Representatives	10,660	13,450	2,790	26.2	700	10	Moderate-Term On-The-Job-Training
43-4061	Eligibility Interviewers, Government Programs	200	190	-10	-5.0	40	10	Moderate-Term On-The-Job-Training
43-4071	File Clerks	1,430	1,590	160	11.2	340	11	Short-Term On-The-Job-Training
43-4081	Hotel, Motel, & Resort Desk Clerks	400	670	270	67.5	170	11	Short-Term On-The-Job-Training
43-4111	Interviewers, Except Eligibility & Loan	1,000	1,260	260	26.0	170	11	Short-Term On-The-Job-Training
43-4121	Library Assistants, Clerical	470	550	80	17.0	160	11	Short-Term On-The-Job-Training
43-4131	Loan Interviewers & Clerks	1,070	970	-100	-9.3	50	11	Short-Term On-The-Job-Training
43-4141	New Accounts Clerks	490	590	100	20.4	80	8	Work Experience
43-4151	Order Clerks	1,590	1,600	10	0.6	230	11	Short-Term On-The-Job-Training
43-4161	Human Resources Assist, Ex Pay & Timekeeping	1,250	1,400	150	12.0	210	11	Short-Term On-The-Job-Training
43-4171	Receptionists & Information Clerks	5,750	7,070	1,320	23.0	1,000	11	Short-Term On-The-Job-Training
43-4181	Reservation & Trans Ticket Agents & Travel Clerks	590	760	170	28.8	130	11	Short-Term On-The-Job-Training
43-4999	Financial Information, & Record Clerks, All Other	1,600	1,980	380	23.7	160	11	Short-Term On-The-Job-Training
43-5011	Cargo & Freight Agents	160	230	70	43.8	30	10	Moderate-Term On-The-Job-Training
43-5021	Couriers & Messengers	560	620	60	10.7	110	11	Short-Term On-The-Job-Training
43-5031	Police, Fire, & Ambulance Dispatchers	190	210	20	10.5	20	10	Moderate-Term On-The-Job-Training
43-5032	Dispatchers, Except Police, Fire, & Ambulance	620	790	170	27.4	80	10	Moderate-Term On-The-Job-Training
43-5041	Meter Readers, Utilities	280	360	80	28.6	50	11	Short-Term On-The-Job-Training

**Table 6: Occupational Employment Projections<sup>1,2</sup>**  
**2001 – 2008**  
**Sacramento County**

SOC Code	Occupation	Annual Average Employment		Employment Change		Openings Due to Separations	BLS Training Level	Education/Experience
		2001 <sup>3</sup>	2008	Number	Percent			
43-5051	Postal Service Clerks	550	570	20	3.6	80	11	Short-Term On-The-Job-Training
43-5052	Postal Service Mail Carriers	1,770	1,840	70	4.0	380	11	Short-Term On-The-Job-Training
43-5053	Postal Serv Mail Sort, Processors, & Processing	160	170	10	6.3	30	11	Short-Term On-The-Job-Training
43-5061	Production, Planning, & Expediting Clerks	980	1,330	350	35.7	130	11	Short-Term On-The-Job-Training
43-5071	Shipping, Receiving, & Traffic Clerks	2,950	3,430	480	16.3	450	11	Short-Term On-The-Job-Training
43-5081	Stock Clerks & Order Fillers	4,650	5,570	920	19.8	1,350	11	Short-Term On-The-Job-Training
43-5111	Weigh, Measure, Check, & Sample, Recordkeeping	270	310	40	14.8	50	11	Short-Term On-The-Job-Training
43-6011	Executive Secretaries & Administrative Assistants	7,720	8,760	1,040	13.5	970	10	Moderate-Term On-The-Job-Training
43-6012	Legal Secretaries	1,420	1,550	130	9.2	170	7	Post-Secondary Vocational Education
43-6013	Medical Secretaries	1,250	1,410	160	12.8	160	7	Post-Secondary Vocational Education
43-6014	Secretaries, Except Legal, Medical, & Executive	6,540	7,190	650	9.9	800	10	Moderate-Term On-The-Job-Training
43-9011	Computer Operators	760	710	-50	-6.6	90	10	Moderate-Term On-The-Job-Training
43-9021	Data Entry Keyers	2,640	2,840	200	7.6	300	10	Moderate-Term On-The-Job-Training
43-9022	Word Processors & Typists	1,350	1,220	-130	-9.6	180	10	Moderate-Term On-The-Job-Training
43-9041	Insurance Claims & Policy Processing Clerks	1,940	2,150	210	10.8	240	10	Moderate-Term On-The-Job-Training
43-9051	Mail Clerks & Mail Mach Ops, Ex Postal Service	820	960	140	17.1	180	11	Short-Term On-The-Job-Training
43-9061	Office Clerks, General	22,590	25,210	2,620	11.6	3,220	11	Short-Term On-The-Job-Training
43-9071	Office Machine Operators, Except Computer	380	370	-10	-2.6	90	11	Short-Term On-The-Job-Training
43-9081	Proofreaders & Copy Markers	100	110	10	10.0	30	11	Short-Term On-The-Job-Training
43-9199	Office & Administrative Support Workers, All Other	3,460	3,980	520	15.0	420	10	Moderate-Term On-The-Job-Training
<b>45-0000</b>		<b>1,700</b>	<b>1,730</b>	<b>30</b>	<b>1.8</b>	<b>260</b>		
<b>Farming, Fishing, &amp; Forestry Occupations</b>								
45-1011	First-Line Sups/Mgrs of Farm, Fish, & Forest Workers	100	100	0	0.0	20	8	Work Experience
45-2092	Farmwrks & Labor, Crop, Nursery, & Greenhouse	200	220	20	10.0	20	11	Short-Term On-The-Job-Training
45-2099	Agricultural Workers, All Other	390	380	-10	-2.6	70	11	Short-Term On-The-Job-Training
45-4011	Forest & Conservation Workers	690	700	10	1.4	120	10	Moderate-Term On-The-Job-Training
45-9099	Farming, Fishing, & Forestry Workers, All Other	320	330	10	3.1	30	10	Moderate-Term On-The-Job-Training
<b>47-0000</b>		<b>30,470</b>	<b>36,630</b>	<b>6,160</b>	<b>20.2</b>	<b>4,510</b>		
<b>Construction &amp; Extraction Occupations</b>								
47-1011	First-Line Sups/Mgrs of Construction Trades	1,930	2,320	390	20.2	340	8	Work Experience

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**2001 – 2008**  
**Sacramento County**

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47-2021	Brickmasons & Blockmasons	140	170	30	21.4	20	9	Long-Term On-The-Job-Training
47-2031	Carpenters	4,990	6,060	1,070	21.4	650	9	Long-Term On-The-Job-Training
47-2041	Carpet Installers	460	520	60	13.0	60	10	Moderate-Term On-The-Job-Training
47-2044	Tile & Marble Setters	300	360	60	20.0	40	9	Long-Term On-The-Job-Training
47-2051	Cement Masons & Concrete Finishers	940	1,050	110	11.7	60	9	Long-Term On-The-Job-Training
47-2053	Terrazzo Workers & Finishers	130	170	40	30.8	10	9	Long-Term On-The-Job-Training
47-2061	Construction Laborers	3,820	4,620	800	20.9	270	10	Moderate-Term On-The-Job-Training
47-2071	Paving, Surfacing, & Tamping Equipment Operators	200	240	40	20.0	30	10	Moderate-Term On-The-Job-Training
47-2073	Operating Engineers & Other Const Equipment Ops	1,150	1,290	140	12.2	190	10	Moderate-Term On-The-Job-Training
47-2081	Drywall & Ceiling Tile Installers	1,780	2,100	320	18.0	130	10	Moderate-Term On-The-Job-Training
47-2082	Tapers	590	690	100	16.9	40	10	Moderate-Term On-The-Job-Training
47-2111	Electricians	3,100	3,810	710	22.9	450	9	Long-Term On-The-Job-Training
47-2121	Glaziers	200	240	40	20.0	30	9	Long-Term On-The-Job-Training
47-2141	Painters, Construction & Maintenance	1,230	1,450	220	17.9	160	10	Moderate-Term On-The-Job-Training
47-2152	Plumbers, Pipefitters, & Steamfitters	2,260	2,770	510	22.6	290	9	Long-Term On-The-Job-Training
47-2161	Plasterers & Stucco Masons	1,170	1,390	220	18.8	170	9	Long-Term On-The-Job-Training
47-2171	Reinforcing Iron & Rebar Workers	330	410	80	24.2	30	9	Long-Term On-The-Job-Training
47-2181	Roofers	780	960	180	23.1	140	10	Moderate-Term On-The-Job-Training
47-2211	Sheet Metal Workers	670	900	230	34.3	110	10	Moderate-Term On-The-Job-Training
47-2221	Structural Iron & Steel Workers	220	270	50	22.7	20	9	Long-Term On-The-Job-Training
47-3011	Helpers--Brick, Block, Stonemasons, & Tile & Marble	400	470	70	17.5	150	11	Short-Term On-The-Job-Training
47-3012	Helpers--Carpenters	620	740	120	19.4	240	11	Short-Term On-The-Job-Training
47-3013	Helpers--Electricians	590	700	110	18.6	220	11	Short-Term On-The-Job-Training
47-3014	Helpers--Paint, Paperhanger, Plaster, & Stucco	210	240	30	14.3	80	11	Short-Term On-The-Job-Training
47-3015	Helpers--Pipelay., Plumber, Pipefitter, & Steamfitters	420	500	80	19.0	160	11	Short-Term On-The-Job-Training
47-3016	Helpers--Roofers	110	130	20	18.2	40	11	Short-Term On-The-Job-Training
47-3019	Helpers, Construction Trades, All Other	270	360	90	33.3	110	11	Short-Term On-The-Job-Training
47-4011	Construction & Building Inspectors	230	260	30	13.0	40	8	Work Experience
47-4031	Fence Erectors	270	300	30	11.1	30	10	Moderate-Term On-The-Job-Training
47-4041	Hazardous Materials Removal Workers	160	200	40	25.0	40	10	Moderate-Term On-The-Job-Training
47-4051	Highway Maintenance Workers	210	220	10	4.8	20	10	Moderate-Term On-The-Job-Training
47-4099	Construction & Related Workers, All Other	540	650	110	20.4	130	10	Moderate-Term On-The-Job-Training

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**2001 – 2008**  
**Sacramento County**

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		2001 <sup>3</sup>	2008	Number	Percent			
49-0000	Installation, Maintenance, & Repair Occupations	18,880	23,410	4,530	24.0	3,240		
49-1011	First-Line Sups/Mgrs of Mechanics, Installer	1,620	2,080	460	28.4	330	8	Work Experience
49-2011	Computer, Automated Teller, & Office Mach Repairers	350	380	30	8.6	30	7	Post-Secondary Vocational Education
49-2022	Telecomm Equip Install & Repair, Ex Line Installers	1,640	2,150	510	31.1	240	7	Post-Secondary Vocational Education
49-2094	Electrical & Electronics Repair, Comm & Indust	200	260	60	30.0	30	7	Post-Secondary Vocational Education
49-2096	Electronic Equip Install & Repair, Motor Vehicles	190	220	30	15.8	30	7	Post-Secondary Vocational Education
49-2097	Electronic Home Entertainment Equip Installers & Repairers	130	120	-10	-7.7	20	7	Post-Secondary Vocational Education
49-2098	Security & Fire Alarm Systems Installers	250	370	120	48.0	40	7	Post-Secondary Vocational Education
49-2099	Electrical & Electronic Equip Mechs, Install, All Other	150	250	100	66.7	30	7	Post-Secondary Vocational Education
49-3011	Aircraft Mechanics & Service Technicians	280	570	290	103.6	60	7	Post-Secondary Vocational Education
49-3021	Automotive Body & Related Repairers	780	910	130	16.7	150	9	Long-Term On-The-Job-Training
49-3022	Automotive Glass Installers & Repairers	420	480	60	14.3	80	9	Long-Term On-The-Job-Training
49-3023	Automotive Service Technicians & Mechanics	3,120	3,740	620	19.9	560	7	Post-Secondary Vocational Education
49-3031	Bus & Truck Mechs & Diesel Engine Specialists	960	1,130	170	17.7	190	7	Post-Secondary Vocational Education
49-3042	Mobile Heavy Equip Mechanics, Except Engines	390	450	60	15.4	80	7	Post-Secondary Vocational Education
49-3093	Tire Repairers & Changers	380	410	30	7.9	110	11	Short-Term On-The-Job-Training
49-9021	Heating, Air Cond, & Refrig Mechanics & Installers	670	850	180	26.9	50	9	Long-Term On-The-Job-Training
49-9031	Home Appliance Repairers	150	190	40	26.7	20	9	Long-Term On-The-Job-Training
49-9041	Industrial Machinery Mechanics	260	300	40	15.4	50	9	Long-Term On-The-Job-Training
49-9042	Maintenance & Repair Workers, General	3,500	4,400	900	25.7	350	9	Long-Term On-The-Job-Training
49-9043	Maintenance Workers, Machinery	120	140	20	16.7	20	9	Long-Term On-The-Job-Training
49-9051	Electrical Power-Line Installers & Repairers	130	160	30	23.1	30	9	Long-Term On-The-Job-Training
49-9052	Telecommunications Line Installers & Repairers	620	800	180	29.0	90	9	Long-Term On-The-Job-Training
49-9069	Precision Instrument & Equip Repairers, All Other	130	150	20	15.4	20	9	Long-Term On-The-Job-Training
49-9091	Coin, Vend, & Amusement Mach Servicers & Repairers	180	200	20	11.1	30	10	Moderate-Term On-The-Job-Training
49-9094	Locksmiths & Safe Repairers	100	110	10	10.0	20	10	Moderate-Term On-The-Job-Training
49-9098	Helpers--Installation, Maint, & Repair Workers	920	1,100	180	19.6	360	11	Short-Term On-The-Job-Training
49-9099	Installation, Maint, & Repair Workers, All Other	1,240	1,490	250	20.2	220	9	Long-Term On-The-Job-Training

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**Sacramento County**

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		2001 <sup>3</sup>	2008	Number	Percent			
<b>51-0000</b>	<b>Production Occupations</b>	<b>22,870</b>	<b>28,070</b>	<b>5,200</b>	<b>22.7</b>	<b>4,160</b>		
51-1011	First-Line Sups/Mgrs of Prod & Operating Wrks	1,670	1,990	320	19.2	340	8	Work Experience
51-2022	Electrical & Electronic Equipment Assemblers	710	850	140	19.7	140	11	Short-Term On-The-Job-Training
51-2041	Structural Metal Fabricators & Fitters	170	230	60	35.3	20	10	Moderate-Term On-The-Job-Training
51-2092	Team Assemblers	2,450	2,980	530	21.6	330	10	Moderate-Term On-The-Job-Training
51-2099	Assemblers & Fabricators, All Other	1,060	1,340	280	26.4	160	10	Moderate-Term On-The-Job-Training
51-3011	Bakers	790	980	190	24.1	100	9	Long-Term On-The-Job-Training
51-3021	Butchers & Meat Cutters	440	480	40	9.1	80	9	Long-Term On-The-Job-Training
51-3092	Food Batchmakers	180	190	10	5.6	30	11	Short-Term On-The-Job-Training
51-3099	Food Processing Workers, All Other	220	210	-10	-4.5	40	11	Short-Term On-The-Job-Training
51-4011	Comp-Controlled Mach Tool Ops, Metal & Plastic	200	250	50	25.0	60	9	Long-Term On-The-Job-Training
51-4021	Extrud & Draw Mach Set, Ops. & Tends, Metal & Plastic	310	460	150	48.4	60	10	Moderate-Term On-The-Job-Training
51-4031	Cutting, Punching, & Press Machine Setters, Ops	670	810	140	20.9	100	10	Moderate-Term On-The-Job-Training
51-4041	Machinists	660	880	220	33.3	110	9	Long-Term On-The-Job-Training
51-4121	Weidlers, Cutters, Solderers, & Brazers	720	950	230	31.9	160	7	Post-Secondary Vocational Education
51-4199	Metal Workers & Plastic Workers, All Other	810	1,050	240	29.6	180	10	Moderate-Term On-The-Job-Training
51-5011	Bindery Workers	290	330	40	13.8	60	10	Moderate-Term On-The-Job-Training
51-5021	Job Printers	300	330	30	10.0	60	9	Long-Term On-The-Job-Training
51-5022	Prepress Technicians & Workers	350	330	-20	-5.7	60	9	Long-Term On-The-Job-Training
51-5023	Printing Machine Operators	690	790	100	14.5	130	10	Moderate-Term On-The-Job-Training
51-6011	Laundry & Dry-Cleaning Workers	740	900	160	21.6	150	10	Long-Term On-The-Job-Training
51-6021	Pressers, Textile, Garment, & Related Materials	310	370	60	19.4	30	11	Short-Term On-The-Job-Training
51-6031	Sewing Machine Operators	390	430	40	10.3	30	10	Moderate-Term On-The-Job-Training
51-6093	Upholsterers	190	190	0	0.0	40	9	Long-Term On-The-Job-Training
51-6099	Textile Apparel, & Furnishings Workers, All Other	130	150	20	15.4	10	10	Moderate-Term On-The-Job-Training
51-7011	Cabinetmakers & Bench Carpenters	830	1,070	240	28.9	210	9	Long-Term On-The-Job-Training
51-7021	Furniture Finishers	150	200	50	33.3	50	9	Long-Term On-The-Job-Training
51-7042	Woodwork Mach Setters, Ops. & Tenders, Ex Sawing	200	250	50	25.0	70	10	Moderate-Term On-The-Job-Training
51-7099	Woodworkers, All Other	310	400	90	29.0	100	10	Moderate-Term On-The-Job-Training
51-8021	Stationary Engineers & Boiler Operators	230	240	10	4.3	50	9	Long-Term On-The-Job-Training
51-8031	Water & Liquid Waste Treat Plant & System Ops	250	270	20	8.0	60	9	Long-Term On-The-Job-Training
51-8091	Chemical Plant & System Operators	100	140	40	40.0	30	9	Long-Term On-The-Job-Training
51-8099	Plant & System Operators, All Other	380	500	120	31.6	100	9	Long-Term On-The-Job-Training

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**2001 – 2008**  
**Sacramento County**

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		2001 <sup>3</sup>	2008					
51-9023	Mix & Blend Mach Setters, Ops. & Tenders	140	150	10	7.1	20	10	Moderate-Term On-The-Job-Training
51-9061	Inspectors, Testers, Sorters, Samplers, & Weighers	1,090	1,370	280	25.7	190	10	Moderate-Term On-The-Job-Training
51-9081	Dental Laboratory Technicians	340	370	30	8.8	70	9	Long-Term On-The-Job-Training
51-9111	Packaging & Filling Machine Operators & Tenders	800	940	140	17.5	130	11	Short-Term On-The-Job-Training
51-9123	Painting, Coating, & Decorating Workers	100	170	70	70.0	20	11	Short-Term On-The-Job-Training
51-9141	Semiconductor Processors	590	680	90	15.3	80	6	Associate Degree
51-9198	Helpers--Production Workers	470	550	80	17.0	90	11	Short-Term On-The-Job-Training
51-9199	Production Workers, All Other	2,440	3,300	860	35.2	410	10	Moderate-Term On-The-Job-Training
<b>53-0000</b>	<b>Transportation &amp; Material Moving Occupations</b>		<b>33,000</b>	<b>40,030</b>	<b>7,030</b>	<b>21.3</b>	<b>6,180</b>	
	First-Line Sups/Mgrs of Help. Labor, & Mat Movers	560	660	100	17.9	90	8	Work Experience
53-1021	First-Line Sups/Mgrs of Trans & Mat-Moving Mach & Veh Op	730	860	130	17.8	120	8	Work Experience
53-1031	Airfield Operations Specialists	250	250	0	0.0	80	11	Short-Term On-The-Job-Training
53-2022	Bus Drivers, Transit & Intercity	1,580	1,790	210	13.3	300	10	Moderate-Term On-The-Job-Training
53-3021	Bus Drivers, School	880	1,030	150	17.0	170	11	Short-Term On-The-Job-Training
53-3022	Driver/Sales Workers	1,950	2,180	230	11.8	200	11	Short-Term On-The-Job-Training
53-3031	Truck Drivers, Heavy & Tractor-Trailer	3,650	4,550	900	24.7	390	10	Moderate-Term On-The-Job-Training
53-3032	Truck Drivers, Light or Delivery Services	4,710	5,840	1,130	24.0	500	11	Short-Term On-The-Job-Training
53-3033	Taxi Drivers & Chauffeurs	390	490	100	25.6	30	11	Short-Term On-The-Job-Training
53-3041	Motor Vehicle Operators, All Other	370	420	50	13.5	50	11	Short-Term On-The-Job-Training
53-3099	Locomotive Engineers	200	160	-40	-20.0	30	8	Work Experience
53-4031	Railroad Conductors & Yardmasters	240	170	-70	-29.2	60	8	Work Experience
53-6021	Parking Lot Attendants	490	570	80	16.3	60	11	Short-Term On-The-Job-Training
53-6031	Service Station Attendants	260	270	10	3.8	100	11	Short-Term On-The-Job-Training
53-6051	Transportation Inspectors	110	130	20	18.2	20	8	Work Experience
53-6099	Transportation Workers, All Other	430	500	70	16.3	110	11	Short-Term On-The-Job-Training
53-7032	Excavating & Loading Machine & Dragline Operators	130	160	30	23.1	30	10	Moderate-Term On-The-Job-Training
53-7051	Industrial Truck & Tractor Operators	1,850	2,190	340	18.4	190	11	Short-Term On-The-Job-Training

**Table 6: Occupational Employment Projections<sup>1,2</sup>**  
**2001 – 2008**  
**Sacramento County**

SOC Code	Occupation	Annual Average Employment		Employment Change Number	Percent	Openings Due to Separations	BLS Training Level	Education/Experience
		2001 <sup>3</sup>	2008					
53-7061	Cleaners of Vehicles & Equipment	1,600	1,860	260	16.2	460	11	Short-Term On-The-Job-Training
53-7062	Laborers & Freight, Stock, & Material Movers, Hand	7,960	9,880	1,920	24.1	2,150	11	Short-Term On-The-Job-Training
53-7063	Machine Feeders & Offbearers	230	240	10	4.3	60	11	Short-Term On-The-Job-Training
53-7064	Packers & Packagers, Hand	3,630	4,800	1,170	32.2	750	11	Short-Term On-The-Job-Training
53-7081	Refuse & Recyclable Material Collectors	250	280	30	12.0	80	11	Short-Term On-The-Job-Training
53-7199	Material Moving Workers, All Other	550	750	200	36.4	150	11	Short-Term On-The-Job-Training
99-9999	Occupation Unknown	310	560	250	80.6	120		

<sup>1</sup>Employment and projections contained in these tables are considered estimates. See introduction for an explanation of data limitations.

<sup>2</sup>Subtotals may not add to the county totals due to the rounding and the suppression of data. Some data are suppressed because of confidentiality, excessive standard error, or other issues.

<sup>3</sup>March 2001 Benchmark.

\*This occupation is a summary occupation. There are no separations currently available for this SOC code. It is anticipated that in the future, this category will be broken out into more detailed occupations.

**Table 7: Occupations with the Most Job Openings<sup>1</sup>**  
**(Growth plus Separations)**  
**2001 – 2008**  
**Sacramento County**

SOC Code	Occupation	Number of Job Openings	BLS Training Level	Education/Experience
41-2011	Cashiers	8,340	11	Short-Term On-The-Job-Training
41-2031	Retail Salespersons	7,960	11	Short-Term On-The-Job-Training
35-3021	Comb Food Prep & Serving Wrkrs, Incl Fast Food	7,230	11	Short-Term On-The-Job-Training
43-9061	Office Clerks, General	5,840	11	Short-Term On-The-Job-Training
35-3031	Waiters & Waitresses	4,820	11	Short-Term On-The-Job-Training
33-9032	Security Guards	4,120	11	Short-Term On-The-Job-Training
53-7062	Laborers & Freight, Stock, & Material Movers, Hand	4,070	11	Short-Term On-The-Job-Training
43-4051	Customer Service Representative	3,490	10	Moderate-Term On-The-Job-Training
29-1111	Registered Nurses	3,130	6	Associate Degree
43-1011	First-Line Sups/Mgrs of Office & Admin Support Wrkrs	2,850	8	Work Experience
37-2011	Janitors & Clean, Ex Maids & Housekeeping Cleaners	2,820	11	Short-Term On-The-Job-Training
11-1021	General & Operations Managers	2,740	4	Bachelor's or Higher and Some Work Exp.
25-2021	Elementary School Teachers, Exc Spec Ed	2,570	5	Bachelor's Degree
25-9041	Teacher Assistants	2,390	11	Short-Term On-The-Job-Training
43-4171	Receptionists & Information Clerks	2,320	11	Short-Term On-The-Job-Training
43-5081	Stock Clerks & Order Fillers	2,270	11	Short-Term On-The-Job-Training
43-6011	Executive Secretaries & Admin Assistants	2,010	10	Moderate-Term On-The-Job-Training
53-7064	Packers & Packagers, Hand	1,920	11	Short-Term On-The-Job-Training
43-3031	Bookkeeping, Accounting, & Auditing Clerks	1,870	10	Moderate-Term On-The-Job-Training
37-3011	Landscaping & Groundskeeping Workers	1,770	11	Short-Term On-The-Job-Training
47-2031	Carpenters	1,720	9	Long-Term On-The-Job-Training
15-1032	Computer Software Engineers, Systems Software	1,690	5	Bachelor's Degree
41-4012	Sales Reps, Whlsale & Mfg, Ex Tech & Scientific Products	1,630	10	Moderate-Term On-The-Job-Training
53-3033	Truck Drivers, Light or Deliver	1,630	11	Short-Term On-The-Job-Training
41-1011	First-Line Sups/Mgrs of Retail Sales Workers	1,540	8	Work Experience
35-2021	Food Preparation Workers	1,490	11	Short-Term On-The-Job-Training
43-6014	Secretaries, Except Legal, Medical, & Executive	1,450	10	Moderate-Term On-The-Job-Training
31-9092	Medical Assistants	1,430	10	Moderate-Term On-The-Job-Training
15-1051	Computer Systems Analysts	1,430	5	Bachelor's Degree
37-2012	Maids & Housekeeping Cleaners	1,330	11	Short-Term On-The-Job-Training

**Table 7: Occupations with the Most Job Openings<sup>1</sup>**  
**(Growth plus Separations)**  
**2001 – 2008**  
**Sacramento County**

SOC Code	Occupation	Number of Job Openings	BLS Training Level	Education/Experience
41-2021	Counter & Rental Clerks	1,330	11	Short-Term On-The-Job-Training
53-3032	Truck Drivers, Heavy & Tractor-Trailer	1,290	10	Moderate-Term On-The-Job-Training
25-2031	Secondary School Teachers, Ex Special & Vocational Ed	1,290	5	Bachelor's Degree
35-2014	Cooks, Restaurant	1,290	9	Long-Term On-The-Job-Training
49-9042	Maintenance & Repair Workers, General	1,250	9	Long-Term On-The-Job-Training
15-1041	Computer Support Specialists	1,230	6	Associate Degree
49-3023	Automotive Service Technicians	1,180	7	Post-Secondary Vocational Education
47-2111	Electricians	1,160	9	Long-Term On-The-Job-Training
13-2011	Accountants & Auditors	1,150	5	Bachelor's Degree
47-2061	Construction Laborers	1,070	10	Moderate-Term On-The-Job-Training
41-3021	Insurance Sales Agents	1,060	5	Bachelor's Degree
31-1012	Nursing Aides, Orderlies, & Attendants	1,050	11	Short-Term On-The-Job-Training
35-3022	Counter Attendants, Cafe, Food Concess, & Coffee Shop	990	11	Short-Term On-The-Job-Training
13-1031	Claims Adjusters, Examiners, & Investigators	980	9	Long-Term On-The-Job-Training
33-3012	Correctional Officers & JaiIers	970	10	Moderate-Term On-The-Job-Training
25-2022	Mid School Teachers, Ex Special Ed	960	5	Bachelor's Degree
43-5071	Shipping, Receiving, & Traffic Clerks	930	11	Short-Term On-The-Job-Training
35-1012	First-Line Sups/Mgrs of Food Prep & Serving Workers	930	8	Work Experience
11-1011	Chief Executives	920	4	Bachelor's or Higher and Some Work Exp.
29-2061	Licensed Practical & Licensed Voc Nurses	900	7	Post-Secondary Vocational Education
<b>TOTAL OF THESE OCCUPATIONS</b>				<b>111,800</b>

<sup>1</sup>Excludes All Other categories.

**Table 8: Occupations with Projected Job Loss<sup>1</sup>**  
**2001 – 2008**  
**Sacramento County**

SOC Code	Occupation	Annual Average Employment		Number of Jobs Lost	Openings due to Separations	BLS Training Level	Education/Experience
		2001 <sup>2</sup>	2008				
43-9022	Word Processors & Typists	1,350	1,220	-130	180	10	Moderate-Term On-The-Job-Training
43-4131	Loan Interviewers & Clerks	1,070	970	-100	50	11	Short-Term On-The-Job-Training
15-2031	Operations Research Analysts	1,030	960	-70	220	3	Master's Degree
53-4031	Railroad Conductors & Yardmasters	240	170	-70	60	8	Work Experience
43-9011	Computer Operators	760	710	-50	90	10	Moderate-Term On-The-Job-Training
53-4011	Locomotive Engineers	200	160	-40	30	8	Work Experience
51-5022	Prepress Technicians & Workers	350	330	-20	60	9	Long-Term On-The-Job-Training
43-9071	Office Machine Operators, Except Computer	380	370	-10	90	11	Short-Term On-The-Job-Training
23-1021	Admin Law Judges, Adjudicators, Hearing Officers	260	250	-10	50	4	Bachelor's or Higher and Some Work Exp.
43-4061	Eligibility Interviewers, Government Programs	200	190	-10	40	10	Moderate-Term On-The-Job-Training
17-2131	Materials Engineers	110	100	-10	20	5	Bachelor's Degree
49-2097	Electronic Home Entertainment Equip Installers & Repairers	130	120	-10	20	7	Post-Secondary Vocational Education
<b>TOTAL OF THESE OCCUPATIONS</b>		<b>6,080</b>	<b>5,550</b>	<b>-530</b>	<b>910</b>		

<sup>1</sup>Excludes All Other categories.

<sup>2</sup>March 2001 Benchmark.



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## **Appendix**



# **Standard Industrial Classification**

The Standard Industrial Classification (SIC) is a nationally standardized system for identifying and coding business establishments according to their industrial activity. An "establishment" is an economic unit, generally located at a single physical location, where business is conducted or where services or industrial operations are performed. The Standard Industrial Classification (SIC) Manual is the reference guide used to accurately apply and/or understand the classification coding system.

The SIC Manual's format separates industries into ten broad divisions, such as manufacturing and retail trade. Within those broad groupings are more specific two-digit codes, as well as more detailed three-digit and four-digit codes, that identify specific industries. Brief narratives describe the kinds of establishments contained in each classification category.

## **Suggestions for Users**

The SIC Manual facilitates the collection, analysis and publication of information about business establishments. This standardized system is used throughout the United States to promote uniformity in the publications of private and governmental agencies. The Employment Development Department's field office personnel use the manual to assign SIC codes to employers to aid in providing services. Trade associations and private industry use the manual in reference books, such as the California Manufacturers Register.

The manual can help one to understand the composite industries summarized in publications. However, all public sector workers are usually grouped together into a category called "government", which includes federal, state and local government, and state and local education.

The U.S. Department of Labor, Occupational Safety and Health Administration provides SIC information on the Internet at:

**[www.osha.gov](http://www.osha.gov)**

The SIC Manual may be purchased from U.S. Government Bookstores, Bureau of Labor Statistics, or the Superintendent of Documents in Los Angeles or San Francisco. For information about purchasing this manual, contact:

U.S. Government Bookstore  
Marathon Plaza, Room 141-S  
303 2nd Street  
San Francisco, CA 94107  
Phone – (415) 512-2770  
Fax – (415) 512-2776  
<http://access.gpo.go>

# Standard Occupational Classification (SOC)

The Standard Occupational Classification (SOC) 1998 System was developed in response to a growing need for a universal occupational classification system—a system which would allow government agencies and private industry to produce comparable data. The SOC system was designed to cover all occupations in which work is performed for pay or profit and will be used by all federal agencies to classify workers into occupational categories for the purpose of collecting, calculating, or disseminating data.

Data collected by the 2000 Census of Population will be coded to the 1998 SOC; the Department of Labor's Occupational Information Network (O\*NET), adheres to the 1998 SOC. In fact, all federal government agencies that collect occupational data are expected to adopt the 1998 SOC over the next few years.

## General Characteristics of the Revised SOC

This system classifies workers at four levels of aggregation:

- major group
- minor group
- broad occupation
- detailed occupation

All workers are classified into one of over 820 occupations, according to their occupational definition. To facilitate classification, all occupations are clustered into one of 23 major groups. Within these major groups, there are 96 minor groups, and 449 broad occupations. Each broad occupation includes detailed occupation(s) requiring similar job duties, skills, education, or experience.

The following example shows the hierarchical structure of the 1998 SOC:

19-0000 Life, physical, and social science occupations (*major group*)

19-000 Life scientists (*minor group*)

19-1020 Biological scientists  
(*broad occupation*)

19-1021 Biochemists and biophysicists  
(*detailed occupation*)

19-1022 Microbiologists  
(*detailed occupation*)

19-1023 Zoologists and wildlife biologists  
(*detailed occupation*)

19-1029 Biological scientists, all other  
(*detailed occupation*)

Additional information, updated revision plans, and information on the implementation of the 1998 SOC are available at the Bureau of Labor Statistics (BLS) Internet site:

[www.bls.gov/soc/socguide.htm](http://www.bls.gov/soc/socguide.htm)

# North American Industry Classification System (NAICS)

The United States has a new industry classification system. The North American Industry Classification System (NAICS) will soon replace the U.S. Standard Industrial Classification (SIC) system.

The first-ever North American Industry classification system, NAICS was developed by the U.S., Canada and Mexico to provide comparable statistics across countries. For the first time, government and business analysts will be able to directly compare industrial production statistics collected and published in the North American Free Trade Agreement countries.

NAICS will reshape the way we view our changing economy. It is a unique, all-new system for classifying business establishments. It is the first economic classification system to be constructed based on a single economic concept. Economic units that use like processes to produce goods or services are grouped together. This "production-oriented" system means that statistical agencies in the United States will produce data that can be used for:

- measuring productivity, unit labor costs, and the capital intensity of production;
- constructing input-output relationships and;
- estimating employment-output relationships and other such statistics that require that inputs and outputs be used together.

NAICS responds to increasing and serious criticism about the SIC. NAICS reflects the structure of today's economy in the United States, Canada and Mexico, including the emergence and growth of the service sector and new and advanced technologies. It is a flexible system that allows each country to recognize important industries below the level at which comparable data will be shown for all three countries.

## NAICS-based statistics.

Advance statistics will appear in early 1999. A report in 2000 will show relationships between NAICS and SIC industries. Implementation by Federal agencies will be in phases. Some agency programs will convert to NAICS as early as 1999, others as late as 2004.

## How is NAICS better?

NAICS will make economic statistics more useful. It will improve basic benchmark and current performance statistics, like manufacturers' shipments, retail sales, and service receipts. It will improve statistics by providing an all-new industry classification system that is more:

*Relevant.* NAICS identifies new industries, revises concepts, and reorganizes classifications so that industry-classified statistics highlight businesses that contribute most to our economy.

*Consistent.* NAICS classifies businesses into industries based on one principle instead of several; the principle that businesses using similar production processes are classified together.

*Comparable.* NAICS provides the first-ever comparability in North American industry classifications and economic statistics.

*Flexible.* NAICS classifications will be updated regularly to keep pace with changes in our economy; every 5 years, all three North American countries will review NAICS and make needed revisions.

## How NAICS will affect the data you use.

Every sector of the economy has been restructured and redefined:

- A new *Information* sector combines communications, publishing, motion picture and sound recording, and online services, recognizing our information-based economy.
- *Manufacturing* is restructured to incorporate high-tech industries, with a new subsector devoted to computers and electronics.
- *Retail Trade* is redefined. In addition, eating and drinking places are transferred to the new *Accommodation and Food Services* sector.
- The difference between Retail and Wholesale is now based on how each store conducts business.

For example, many computer stores are reclassified from wholesale to retail.

- Nine new service sectors and 250 new service industries are recognized.

#### **All new numbering system**

Numeric codes for each NAICS classification are completely different from those of the SIC. The new numbering system underscores the “clean slate” approach taken in NAICS and allows its classification changes to be fully developed.

The new system provides five levels of classification (up from four in the SIC), detailed codes that have a maximum of six-digits (up from four in the SIC) and detailed classifications called “U.S. Industry” (instead of “Industry” in the SIC). These changes require new numbers, even for industries that continue without change.

For example, both NAICS and SIC include the detailed industry, “Passenger car rental.” However, in NAICS, it has code number 532111, and in the SIC, it was code number 7514. While all NAICS numeric codes are new, like the SIC, they are organized into multi-level hierarchical classification groups that build up from the detailed industry level.

The additional level of classification and expanded number of digits permit NAICS to account for the increased number of classifications, provide flexibility in structuring industry classification groups, and allow for country-based variations in classification detail.

A variety of resources are available to help users of business statistics understand and use NAICS. Additional information, answers to frequently asked questions, and updated agency implementation plans are available at the Census Bureau's Internet site:

**[www.census.gov/naics](http://www.census.gov/naics)**

Answers to classification and data program inquiries may also be addressed to industry experts at:

**Phone: 1-888-75NAICS**

**Email: [naics@census.gov](mailto:naics@census.gov)**

# Projection Methods and Economic Assumptions

The employment projection process consists of two phases: first, projections for employment by industry are made using both historical data and current information about the economy. Next, the industry projections become a primary source used to project changes in occupational employment.

Changes in occupational employment over time result from two principal sources: industry growth and technological change. In developing occupational employment projections, both of these components must be addressed.

The following is a discussion of how industry and occupational projections are developed, beginning with a description of data sources and followed by a description of the steps involved.

## Principal Data Sources

*Employment by Industry* The source of the official historical industry employment series used for industry projections for the state and each county is the Current Employment Statistics (CES) program. This is a Federal/State cooperative program that compiles monthly estimates of industry employment groupings for the state and each county. These monthly industry employment estimates are based primarily on employer sample surveys.

A second source used in industry forecasts is the Covered Employment and Wage Data, or ES-202 program. Essentially, this program extracts employment and wage information from quarterly tax returns filed by each California employer covered by unemployment insurance. Each employer has been assigned a specific industry and county code and these data are compiled to provide the 'actual' industry employment levels for each industry and county. These data are then used for benchmarking the monthly industry employment estimates made in the CES program. This is also a Federal/State cooperative program.

*Employment by Occupation* Occupational employment estimates are based on survey data collected through the Occupational Employment Statistics (OES) program. The OES survey is an annual mail survey of nonfarm employers conducted by EDD in cooperation with the U.S. Bureau of Labor

Statistics. The survey is based on a sample designed to represent the universe of employers in each state. In California, data are collected for over 800 occupations at the three-digit SIC level of detail. The survey samples approximately 110,000 business establishments over a three year period.

## The Process

*Industry Projections* Industry projections are first developed at aggregated levels (industry groupings) for the state and each county based on the Current Employment Statistics employment series.

Second, these aggregated industry projections are then broken down into more industry specific detail using the ES-202 data. The industry specific projections then become the primary source from which occupational projections are developed by using industry staffing patterns data. The following steps outline the process:

- Approximately every two years, industry employment projections are produced for the nation by the Bureau of Labor Statistics.
- Industry projections are then developed for the state using input from the national forecast and the historical industry employment series for the state.
- County industry projections are then developed using input from the state forecast and the historical employment series for each county.
- State projections are developed for ten years from the base period and county projections are developed for seven years from the base period.
- State forecasts are reviewed by LMID industry analysts, California's Department of Finance, and academics.
- County forecasts are reviewed by local area consultants who provide up-to-date information regarding recent developments in each county not normally accounted for in the model.

**Occupational Projections** The distribution of industry employment by occupation is performed in three steps.

- OES survey responses are summarized by industry and matched with appropriate SIC in the area. (In cases where local OES responses are not available, statewide responses or another area's responses are substituted.)
- The survey data are adjusted to total to the annual average employment level for each industry. This results in estimates of employment by occupation within the three-digit SICs for the base year.
- Finally, base year staffing patterns are adjusted to account for projected shifts in occupational distributions due to technological changes.

These projected changes are derived from special studies conducted by the U.S. Bureau of Labor Statistics. Applying these changes to the base year staffing patterns results in staffing patterns by three-digit SIC for the projected year. Projected year staffing patterns are applied to the industry employment projections to produce occupational employment projections within three-digit SICs. Data by occupation are then summed to get the occupational estimates. The difference between the base year occupation estimates and the projected year projections represents the job growth resulting from industry growth and from technological change. (Change factors do not try to predict regulatory changes.)

Demand for workers is also created by openings that result when workers leave jobs to enter other occupations, retire, or leave the labor force for other reasons. These openings, termed *separations*, are important because, in most occupations, they exceed job openings resulting from employment growth. Even occupations that are projected to decline usually provide job openings due to separations. Separations are developed from separation rates compiled on a national basis every two years by the Bureau Of Labor Statistics.

### Economic Assumptions

The industry and occupational projections in this report are based on the following assumptions:

- The institutional framework of the U.S. economy will not change radically.
- Recent technological and scientific trends will continue.
- The long-term employment patterns will continue in most industries.
- Federal, state, and local government agencies will continue to operate under budgetary constraints.
- No major events, such as war, will occur that will significantly alter the industrial structure of the economy, the occupational staffing patterns, or the rate of long-term growth.
- Population growth rates and age distributions will not differ significantly from Department of Finance projections presently available.
- Attitudes toward work, education, income, and leisure will not change significantly.

## Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA SOC CODE
Accountants & Auditors	56	13-2011
Actors	283	27-2011
Actuaries	82	15-2011
Admin Law Judges, Adjudicators, & Hearing Officers	194	23-1021
Administrative Services Managers	11	11-3011
Adult Literacy, Remedial Ed, & GED Teachers &	252	25-3011
Advertising & Promotions Managers	7	11-2011
Advertising Sales Agents	485	41-3011
Aerospace Engineering & Operations Technicians	117	17-3021
Aerospace Engineers	95	17-2011
Agents & Bus Mgrs of Artists, Performers & Athletes	39	13-1011
Agricultural & Food Science Technicians	163	19-4011
Agricultural & Food Scientists, All Other	131	19-1019
Agricultural Engineers	96	17-2021
Agricultural Equipment Operators	564	45-2091
Agricultural Inspectors	561	45-2011
Agricultural Sciences Teachers, Postsecondary	209	25-1041
Agricultural Workers, All Other	568	45-2099
Air Crew Members	873	55-3011
Air Crew Officers	862	55-1011
Air Traffic Controllers	813	53-2021
Air Transportation Workers, All Other	815	53-2099
Aircraft Cargo Handling Supervisors	808	53-1011
Aircraft Launch & Recovery Officers	863	55-1012
Aircraft Launch & Recovery Specialists	874	55-3012
Aircraft Mechanics & Service Technicians	654	49-3011
Aircraft Struct, Surfaces, Rigging, & Systems Assemb	696	51-2011
Airfield Operations Specialists	814	53-2022
Airline Pilots, Copilots, & Flight Engineers	811	53-2011
Ambulance Drivers & Attendants, Ex EMTs	816	53-3011
Amusement & Recreation Attendants	451	39-3091
Anesthesiologists	323	29-1061
Animal Breeders	562	45-2021
Animal Control Workers	402	33-9011
Animal Scientists	128	19-1011
Animal Trainers	444	39-2011
Announcers, All Other	295	27-3019
Anthropologists & Archeologists	158	19-3091
Anthropology & Archeology Teachers, Postsecond	216	25-1061
Appraisers & Assessors of Real Estate	57	13-2021
Arbitrators, Mediators, & Conciliators	195	23-1022
Architects, Except Landscape & Naval	90	17-1011
Architects, Surveyors, & Cartographers, All Other	94	17-1099
Architectural & Civil Drafters	113	17-3011
Architecture & Engineering Occupations	89	17-0000
Architecture Teachers, Postsecondary	207	25-1031
Archivists, Curators, & Museum Technicians	256	25-4011
Archivists, Curators, & Museum Techs, All Other	259	25-4019
Area, Ethnic, & Cultral Studies Teachrs, Postsecond	217	25-1062
Armored Assault Vehicle Crew Members	875	55-3013

## Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA SOC CODE
Armored Assault Vehicle Officers	864	55-1013
Art & Design Workers, All Other	282	27-1099
Art Directors	269	27-1011
Art, Drama, & Music Teachers, Postsecondary	231	25-1121
Artillery & Missile Crew Members	876	55-3014
Artillery & Missile Officers	865	55-1014
Artists & Related Workers, All Other	273	27-1019
Arts, Design, Entertainment, Sports, & Media Occs	268	27-0000
Assemblers & Fabricators, All Other	705	51-2099
Astronomers	141	19-2011
Athletes & Sports Competitors	285	27-2021
Athletic Trainers	366	29-9091
Atmos, Earth, Marine, & Space Sciences Teachrs	212	25-1051
Atmospheric & Space Scientists	143	19-2021
Audio & Video Equipment Technicians	305	27-4011
Audiologists	334	29-1121
Audio-Visual Collections Specialists	262	25-9011
Automotive Body & Related Repairers	655	49-3021
Automotive Glass Installers & Repairers	656	49-3022
Automotive Service Technicians & Mechanics	657	49-3023
Avionics Technicians	645	49-2091
Baggage Porters & Bellhops	464	39-6011
Bailiffs	395	33-3011
Bakers	706	51-3011
Barbers	458	39-5011
Bartenders	419	35-3011
Bicycle Repairers	665	49-3091
Bill & Account Collectors	505	43-3011
Billing & Posting Clerks & Machine Operators	506	43-3021
Bindery Workers	740	51-5011
Biochemists & Biophysicists	132	19-1021
Biological Science Teachers, Postsecondary	210	25-1042
Biological Scientists, All Other	135	19-1029
Biological Technicians	164	19-4021
Biomedical Engineers	97	17-2031
Bldng & Grounds Cleaning & Maint Wrkers, All Other	439	37-9099
Boilermakers	579	47-2011
Bookbinders	741	51-5012
Bookkeeping, Accounting, & Auditing Clerks	507	43-3031
Brickmasons & Blockmasons	580	47-2021
Bridge & Lock Tenders	836	53-6011
Broadcast News Analysts	296	27-3021
Broadcast Technicians	306	27-4012
Brokerage Clerks	512	43-4011
Budget Analysts	58	13-2031
Building & Grounds Cleaning & Maintenance Occs	428	37-0000
Building Cleaning Workers, All Other	433	37-2019
Bus & Truck Mechs & Diesel Engine Specialists	658	49-3031
Bus Drivers, School	818	53-3022
Bus Drivers, Transit & Intercity	817	53-3021

## Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA SOC CODE
Business & Financial Operations Occupations	38	13-0000
Business Operations Specialists, All Other	55	13-1199
Business Teachers, Postsecondary	204	25-1011
Butchers & Meat Cutters	707	51-3021
Cabinetmakers & Bench Carpenters	761	51-7011
Camera & Photographic Equipment Repairers	680	49-9061
Camera Ops, Television, Video, & Motion Picture	310	27-4031
Captains, Mates, & Pilots of Water Vessels	832	53-5021
Cardiovascular Technologists & Technicians	347	29-2031
Cargo & Freight Agents	530	43-5011
Carpenters	582	47-2031
Carpet Installers	583	47-2041
Cartographers & Photogrammetrists	92	17-1021
Cashiers	480	41-2011
Cement Masons & Concrete Finishers	587	47-2051
Cementing & Gluing Machine Operators & Tenders	798	51-9191
Chefs & Head Cooks	410	35-1011
Chemical Engineers	98	17-2041
Chemical Equipment Operators & Tenders	777	51-9011
Chemical Plant & System Operators	773	51-8091
Chemical Technicians	165	19-4031
Chemistry Teachers, Postsecondary	213	25-1052
Chemists	144	19-2031
Chief Executives	4	11-1011
Child Care Workers	470	39-9011
Child, Family, & School Social Workers	180	21-1021
Chiropractors	314	29-1011
Choreographers	289	27-2032
Civil Engineering Technicians	118	17-3022
Civil Engineers	99	17-2051
Claims Adjusters, Examiners, & Investigators	43	13-1031
Clean, Wash, & Metal Pickling Equip Ops & Tenders	799	51-9192
Cleaners of Vehicles & Equipment	849	53-7061
Clergy	188	21-2011
Clinical, Counseling, & School Psychologists	153	19-3031
Coaches & Scouts	286	27-2022
Coat, Paint, & Spray Mach Set, Opes & Tenders	792	51-9121
Coil Winders, Tapers, & Finishers	697	51-2021
Coin, Vend, & Amusement Mach Servicers & Repair	685	49-9091
Comb Food Prep & Serving Wrkers, Incl Fast Food	420	35-3021
Comm& & Control Center Officers	866	55-1015
Command & Control Center Specialists	877	55-3015
Commercial & Industrial Designers	274	27-1021
Commercial Divers	686	49-9092
Commercial Pilots	812	53-2012
Communications Equipment Operators, All Other	504	43-2099
Communications Teachers, Postsecondary	232	25-1122
Community & Social Service Specialists, All Other	187	21-1099
Community & Social Services Occupations	173	21-0000
Comp Officers, Ex Ag, Const, Hlth & Safety, & Trans	45	13-1041

## Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA SOC CODE
Comp-Controlled Mach Tool Ops, Metal & Plastic	714	51-4011
Compensation & Benefits Managers	14	11-3041
Compensation, Benefits, & Job Analysis Specialists	49	13-1072
Computer & Information Scientists, Research	72	15-1011
Computer & Information Systems Managers	12	11-3021
Computer & Mathematical Science Occupations	71	15-0000
Computer Hardware Engineers	100	17-2061
Computer Operators	546	43-9011
Computer Programmers	73	15-1021
Computer Science Teachers, Postsecondary	205	25-1021
Computer Software Engineers, Applications	74	15-1031
Computer Software Engineers, Systems Software	75	15-1032
Computer Specialists, All Other	81	15-1099
Computer Support Specialists	76	15-1041
Computer Systems Analysts	77	15-1051
Computer, Automated Teller, & Office Mach Repairer	642	49-2011
Concierges	465	39-6012
Conservation Scientists	136	19-1031
Construction & Building Inspectors	616	47-4011
Construction & Extraction Occupations	577	47-0000
Construction & Extraction Occupations, All Other	639	47-9999
Construction & Related Workers, All Other	624	47-4099
Construction Laborers	589	47-2061
Construction Managers	22	11-9021
Construction Trades & Related Workers, All Other	625	47-4999
Continuous Mining Machine Operators	631	47-5041
Control & Valve Installers & Repairers, Ex Mech	670	49-9012
Conveyor Operators & Tenders	842	53-7011
Cooks, All Other	417	35-2019
Cooks, Fast Food	412	35-2011
Cooks, Institution & Cafeteria	413	35-2012
Cooks, Private Household	414	35-2013
Cooks, Restaurant	415	35-2014
Cooks, Short Order	416	35-2015
Cooling & Freezing Equipment Operators & Tenders	800	51-9193
Correctional Officers & Jailers	396	33-3012
Correspondence Clerks	513	43-4021
Cost Estimators	46	13-1051
Costume Attendants	452	39-3092
Counselors, All Other	179	21-1019
Counselors, Social & Religious Workers, All Other	191	21-9099
Counter & Rental Clerks	482	41-2021
Counter Attends, Cafe, Food Concess, & Coffee Shop	421	35-3022
Couriers & Messengers	531	43-5021
Court Reporters	198	23-2091
Court, Municipal, & License Clerks	514	43-4031
Craft Artists	270	27-1012
Crane & Tower Operators	843	53-7021
Credit Analysts	59	13-2041
Credit Authorizers, Checkers, & Clerks	515	43-4041

## Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA SOC CODE
Criminal Justice & Law Enforce Teachrs, Postsecond	228	25-1111
Crossing Guards	406	33-9091
Crushing, Grinding, & Polishing Mach Setters, Ops	779	51-9021
Curators	257	25-4012
Customer Service Representatives	516	43-4051
Cutters & Trimmers, Hand	782	51-9031
Cutting & Slicing Mach Setters, Ops, & Tenders	783	51-9032
Cutting, Punching, & Press Machine Setters, Ops	719	51-4031
Dancers	288	27-2031
Data Entry Keyers	547	43-9021
Database Administrators	78	15-1061
Demonstrators & Product Promoters	492	41-9011
Dental Assistants	380	31-9091
Dental Hygienists	346	29-2021
Dental Laboratory Technicians	788	51-9081
Dentists, All Other Specialists	319	29-1029
Dentists, General	315	29-1021
Derrick Operators, Oil & Gas	626	47-5011
Designers, All Other	281	27-1029
Desktop Publishers	549	43-9031
Detectives & Criminal Investigators	397	33-3021
Diagnostic Medical Sonographers	348	29-2032
Dietetic Technicians	352	29-2051
Dietitians & Nutritionists	320	29-1031
Dining Rm & Cafeteria Attendants & Bartender Help	424	35-9011
Directors, Religious Activities & Education	189	21-2021
Dishwashers	425	35-9021
Dispatchers, Except Police, Fire, & Ambulance	533	43-5032
Drafters, All Other	116	17-3019
Drafters, Engineering, & Map Technicians, All Other	126	17-3099
Dredge Operators	844	53-7031
Drill & Bore Mach Tool Set, Ops, & Tend, Metal & Plasti	720	51-4032
Driver/Sales Workers	819	53-3031
Dr-to-Dr Sales Wrkrs, Nws & St Vndrs, & Rel Wrkrs	498	41-9091
Drywall & Ceiling Tile Installers	593	47-2081
Earth Drillers, Except Oil & Gas	629	47-5021
Economics Teachers, Postsecondary	218	25-1063
Economists	150	19-3011
Editors	300	27-3041
Educ Admins, Elementary & Secondary School	24	11-9032
Educ Admins, Preschool & Child Care Center	23	11-9031
Education Administrators, All Other	26	11-9039
Education Administrators, Postsecondary	25	11-9033
Education Teachers, Postsecondary	226	25-1081
Education, Training, & Library Occupations	203	25-0000
Education, Training, & Library Workers, All Other	266	25-9099
Educational, Vocational, & School Counselors	175	21-1012
Electric Motor, Power Tool, & Related Repairers	646	49-2092
Electrical & Electronic Engineering Technicians	119	17-3023
Electrical & Electronic Equipment Assemblers	698	51-2022

## Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA SOC CODE
Electrical & Electronic Equip Mechs, Install, & Repair	653	49-2099
Electrical & Electronics Drafters	114	17-3012
Electrical & Electronics Install & Repair, Trans Equipt	647	49-2093
Electrical & Electronics Repair, Comm & Indust Equipt	648	49-2094
Electrical & Electronics Repair, Powerhse, Substrn, & Re	649	49-2095
Electrical Engineers	101	17-2071
Electrical Power-Line Installers & Repairers	678	49-9051
Electricians	595	47-2111
Electromechanical Equipment Assemblers	699	51-2023
Electro-Mechanical Technicians	120	17-3024
Electronic Equipt Install & Repair, Motor Veh	650	49-2096
Electronic Home Entertainment Equipt Install & Repair	651	49-2097
Electronics Engineers, Except Computer	102	17-2072
Elementary School Teachers, Except Special Ed	244	25-2021
Elevator Installers & Repairers	617	47-4021
Eligibility Interviewers, Government Programs	517	43-4061
Embalmers	456	39-4011
Emergency Management Specialists	47	13-1061
Emergency Medical Technicians & Paramedics	351	29-2041
Employment, Recruitment, & Placement Specialists	48	13-1071
Engine & Other Machine Assemblers	700	51-2031
Engineering Managers	27	11-9041
Engineering Teachers, Postsecondary	208	25-1032
Engineering Technicians, Except Drafters, All Other	124	17-3029
Engineers, All Other	112	17-2199
English Lang & Literature Teachers, Postsecond	233	25-1123
Entertainers & Performers, Sports & Rel Workers	292	27-2099
Entertainment Attendants & Rel Workers, All Other	454	39-3099
Environ Science & Protection Techs, Incl Health	169	19-4091
Environmental Engineering Technicians	121	17-3025
Environmental Engineers	103	17-2081
Environmental Science Teachers, Postsecondary	214	25-1053
Environmental Scientists & Specialists, Incl Health	146	19-2041
Epidemiologists	138	19-1041
Etchers & Engravers	801	51-9194
Excavating & Loading Machine & Dragline Operators	845	53-7032
Executive Secretaries & Administrative Assistants	542	43-6011
Explosive Wrkers, Ordnce Handling Experts, & Blasters	630	47-5031
Extraction Workers, All Other	638	47-5099
Extrud & Draw Mach Setters, Ops, & Tends, Metl & Plas	716	51-4021
Extrude & Form Mach Setters, Ops, & Tenders	757	51-6091
Extrude, Form, Press, & Compact Mach Set, Ops, & Tend	784	51-9041
Fabric & Apparel Patternmakers	758	51-6092
Fabric Menders, Except Garment	687	49-9093
Fallers	572	45-4021
Family & General Practitioners	324	29-1062
Farm & Home Management Advisors	263	25-9021
Farm Equipment Mechanics	659	49-3041
Farm Labor Contractors	560	45-1012
Farm, Ranch, & Other Agricultural Managers	20	11-9011

## Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA SOC CODE
Farmers & Ranchers	21	11-9012
Farming, Fishing, & Forestry Occupations	558	45-0000
Farming, Fishing, & Forestry Workers, All Other	576	45-9099
Farmworkers, Agricultural Production	567	45-2094
Farmworkers, Farm & Ranch Animals	566	45-2093
Farmwrkrs & Labor, Crop, Nursery, & Greenhouse	565	45-2092
Fashion Designers	275	27-1022
Fence Erectors	618	47-4031
Fiberglass Laminators & Fabricators	702	51-2091
File Clerks	518	43-4071
Film & Video Editors	311	27-4032
Financial Analysts	60	13-2051
Financial Examiners	63	13-2061
Financial Managers	13	11-3031
Financial Specialists, All Other	68	13-2099
Financial, Information, & Record Clerks, All Other	529	43-4999
Fine Artists, Incl Painters, Sculptors, & Illustrators	271	27-1013
Fire Fighters	392	33-2011
Fire Inspectors & Investigators	393	33-2021
First-Line Supervisors/Managers of Air Crew Members	870	55-2011
First-Line Supervisors/Managers of All Other Tactical O	872	55-2013
First-Line Supervisors/Managers of Weapons Specialists	871	55-2012
First-Line Sups/Managers of Correctional Officers	388	33-1011
First-Line Sups/Managers of Police & Detectives	389	33-1012
First-Line Sups/Mgrs of Construction Trades	578	47-1011
First-Line Sups/Mgrs of Farm, Fish, & Forest Wrkrs	559	45-1011
First-Line Sups/Mgrs of Fire Fighting & Prevent Wrkrs	390	33-1021
First-Line Sups/Mgrs of Food Prep & Serving Wrkrs	411	35-1012
First-Line Sups/Mgrs of Help, Labor, & Mat Move, Hand	809	53-1021
First-Line Sups/Mgrs of Housekeep & Janitor Wrkrs	429	37-1011
First-Line Sups/Mgrs of Lndscp, Lwn Serv, & Grndskeep W	430	37-1012
First-Line Sups/Mgrs of Mechanics, Installer	641	49-1011
First-Line Sups/Mgrs of Non-Retail Sales Workers	479	41-1012
First-Line Sups/Mgrs of Office & Admin Support Wrkrs	501	43-1011
First-Line Sups/Mgrs of Personal Service Workers	443	39-1021
First-Line Sups/Mgrs of Prod & Operating Wrkrs	695	51-1011
First-Line Sups/Mgrs of Retail Sales Workers	478	41-1011
First-Line Sups/Mgrs of Trans & Mat-Moving Mach & Veh O	810	53-1031
First-Line Sups/Mgrs, Protective Serv Wrkrs, All Other	391	33-1099
Fish & Game Wardens	398	33-3031
Fishers & Related Fishing Workers	569	45-3011
Fitness Trainers & Aerobics Instructors	472	39-9031
Flight Attendants	468	39-6031
Floor Layers, Except Carpet, Wood, & Hard Tiles	584	47-2042
Floor Sanders & Finishers	585	47-2043
Floral Designers	276	27-1023
Food & Tobac Roast, Bake, & Dry Mach Ops & Tends	710	51-3091
Food Batchmakers	711	51-3092
Food Cooking Machine Operators & Tenders	712	51-3093
Food Prep & Serving Related Workers, All Other	427	35-9099

## Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA SOC CODE
Food Preparation & Serving Related Occupations	409	35-0000
Food Preparation Workers	418	35-2021
Food Processing Workers, All Other	713	51-3099
Food Scientists & Technologists	129	19-1012
Food Servers, Nonrestaurant	423	35-3041
Food Service Managers	28	11-9051
Foreign Language & Lit Teachrs, Postsecond	234	25-1124
Forensic Science Technicians	170	19-4092
Forest & Conservation Science Teachrs, Postsecond	211	25-1043
Forest & Conservation Technicians	171	19-4093
Forest & Conservation Workers	571	45-4011
Forest Fire Inspectors & Prevention Specialists	394	33-2022
Foresters	137	19-1032
Forging Mach Setters, Ops, & Tends, Metal & Plastic	717	51-4022
Foundry Mold & Coremakers	729	51-4071
Funeral Attendants	457	39-4021
Funeral Directors	29	11-9061
Furnace, Kiln, Oven, Drier, & Kettle Ops & Tenders	785	51-9051
Furniture Finishers	762	51-7021
Gaming & Sports Book Writers & Runners	447	39-3012
Gaming Cage Workers	508	43-3041
Gaming Change Persons & Booth Cashiers	481	41-2012
Gaming Dealers	446	39-3011
Gaming Managers	30	11-9071
Gaming Service Workers, All Other	448	39-3019
Gaming Supervisors	441	39-1011
Gaming Surveillance Officers & Gaming Investigators	404	33-9031
Gaming Workers, All Other	455	39-3199
Gas Compressor & Gas Pumping Station Operators	853	53-7071
Gas Plant Operators	774	51-8092
General & Operations Managers	5	11-1021
Geographers	159	19-3092
Geography Teachers, Postsecondary	219	25-1064
Geological & Petroleum Technicians	166	19-4041
Geoscientists, Except Hydrologists & Geographers	147	19-2042
Glaziers	596	47-2121
Graders & Sorters, Agricultural Products	563	45-2041
Graduate Teaching Assistants	237	25-1191
Graphic Designers	277	27-1024
Grind, Lap, Polish, & Buff Mach Tool Set, Ops, & Tend,	721	51-4033
Grinding & Polishing Workers, Hand	780	51-9022
Grounds Maintenance Workers, All Other	438	37-3019
Hairdressers, Hairstylists, & Cosmetologists	459	39-5012
Hazardous Materials Removal Workers	619	47-4041
Health & Safety Engrs, Ex Mining Safety Engrs & Insp	104	17-2111
Health Diagnosing & Treating Practitioners, All Other	343	29-1199
Health Educators	184	21-1091
Health Professionals & Technicians, All Other	368	29-9199
Health Specialties Teachers, Postsecondary	224	25-1071
Health Technologists & Technicians, All Other	362	29-2099

## Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA SOC CODE
Healthcare Practitioners & Tech Workers, All Other	367	29-9099
Healthcare Practitioners & Technical Occupations	313	29-0000
Healthcare Support Occupations	371	31-0000
Healthcare Support Workers, All Other	386	31-9099
Heat Treat Equipt Set, Ops, & Tend, Metal & Plastic	735	51-4191
Heating, Air Conditioning, & Refrigeration Mechanics	671	49-9021
Helpers, Construction Trades, All Other	615	47-3019
Helpers--Brick, Block, Stonemasons, & Tile & Marble Set	609	47-3011
Helpers--Carpenters	610	47-3012
Helpers--Electricians	611	47-3013
Helpers--Extraction Workers	637	47-5081
Helpers--Installation, Maint, & Repair Workers	692	49-9098
Helpers--Paint, Paperhanger, Plaster, & Stucco	612	47-3014
Helpers--Pipelayer, Plumber, Pipefitter, & Steamfitter	613	47-3015
Helpers--Production Workers	805	51-9198
Helpers--Roofers	614	47-3016
Highway Maintenance Workers	620	47-4051
Historians	160	19-3093
History Teachers, Postsecondary	235	25-1125
Hoist & Winch Operators	847	53-7041
Home Appliance Repairers	672	49-9031
Home Economics Teachers, Postsecondary	238	25-1192
Home Health Aides	372	31-1011
Hosts & Hostess, Restaurant, Lounge, & Coffee Shp	426	35-9031
Hotel, Motel, & Resort Desk Clerks	519	43-4081
Human Resources Assist, Ex Pay & Timekeep	525	43-4161
Human Resources Managers, All Other	16	11-3049
Human Resrces, Trng, & Lab Rels Specs, All Other	51	13-1079
Hunters & Trappers	570	45-3021
Hydrologists	148	19-2043
Industrial Engineering Technicians	122	17-3026
Industrial Engineers	105	17-2112
Industrial Machinery Mechanics	673	49-9041
Industrial Production Managers	17	11-3051
Industrial Truck & Tractor Operators	848	53-7051
Industrial-Organizational Psychologists	154	19-3032
Infantry	878	55-3016
Infantry Officers	867	55-1016
Information & Record Clerks, All Other	528	43-4199
Inspectors, Testers, Sorters, Samplers, & Weighers	786	51-9061
Installation, Maint, & Repair Workers, All Other	693	49-9099
Installation, Maintenance, & Repair Occupations	640	49-0000
Instructional Coordinators	264	25-9031
Insulation Workers, All Other	599	47-2139
Insulation Workers, Floor, Ceiling, & Wall	597	47-2131
Insulation Workers, Mechanical	598	47-2132
Insurance Appraisers, Auto Damage	44	13-1032
Insurance Claims & Policy Processing Clerks	550	43-9041
Insurance Sales Agents	486	41-3021
Insurance Underwriters	62	13-2053

## Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA SOC CODE
Interior Designers	278	27-1025
Internists, General	325	29-1063
Interpreters & Translators	303	27-3091
Interviewers, Except Eligibility & Loan	520	43-4111
Janitors & Clean, Ex Maids & Housekeep Cleaners	431	37-2011
Jewelers & Precious Stone & Metal Workers	787	51-9071
Job Printers	742	51-5021
Judges, Magistrate Judges, & Magistrates	196	23-1023
Kindergarten Teachers, Except Special Education	243	25-2012
Laborers & Freight, Stock, & Material Movers, Hand	850	53-7062
Landscape Architects	91	17-1012
Landscaping & Groundskeeping Workers	435	37-3011
Lathe & Turn Mach Tool Set, Ops, & Tend, Metl & Plas	722	51-4034
Laundry & Dry-Cleaning Workers	746	51-6011
Law Clerks	199	23-2092
Law Teachers, Postsecondary	229	25-1112
Lawyers	193	23-1011
Lay-Out Workers, Metal & Plastic	736	51-4192
Legal & Related Workers, All Other	202	23-9099
Legal Occupations	192	23-0000
Legal Secretaries	543	43-6012
Legal Support Workers, All Other	201	23-2099
Legislators	6	11-1031
Librarians	260	25-4021
Library Assistants, Clerical	521	43-4121
Library Science Teachers, Postsecondary	227	25-1082
Library Technicians	261	25-4031
Library, Museum, Training, & Oth Ed Wrkrs, All Other	267	25-9199
Licensed Practical & Licensed Vocational Nurses	358	29-2061
Life Scientists, All Other	140	19-1099
Life, Physical, & Social Science Occupations	127	19-0000
Life, Physical, & Social Science Techs, All Other	172	19-4099
Lifeguards, Ski Patrol, & Oth Rec Protect Serv Wrkrs	407	33-9092
Loading Machine Operators, Underground Mining	846	53-7033
Loan Counselors	64	13-2071
Loan Interviewers & Clerks	522	43-4131
Loan Officers	65	13-2072
Locker Room, Coatroom, & Dressing Room Attend	453	39-3093
Locksmiths & Safe Repairers	688	49-9094
Locomotive Engineers	824	53-4011
Locomotive Firers	825	53-4012
Lodging Managers	31	11-9081
Log Graders & Scalers	574	45-4023
Logging Equipment Operators	573	45-4022
Logging Workers, All Other	575	45-4029
Logisticians	52	13-1081
Machine Feeders & Offbearers	851	53-7063
Machinists	724	51-4041
Maids & Housekeeping Cleaners	432	37-2012
Mail Clerks & Mail Mach Ops, Ex Postal Service	551	43-9051

## Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA SOC CODE
Maintenance & Repair Workers, General	674	49-9042
Maintenance Workers, Machinery	675	49-9043
Makeup Artists, Theatrical & Performance	460	39-5091
Management Analysts	53	13-1111
Management Occupations	3	11-0000
Management, Bus. & Financial Occs, All Other	69	11-13-9999
Management, Business, & Financial Occupations	2	11-13-0000
Managers, All Other	37	11-9199
Manicurists & Pedicurists	461	39-5092
Manufactured Building & Mobile Home Installers	689	49-9095
Marine Engineers & Naval Architects	106	17-2121
Market Research Analysts	151	19-3021
Marketing Managers	8	11-2021
Marriage & Family Therapists	176	21-1013
Massage Therapists	379	31-9011
Material Moving Workers, All Other	859	53-7199
Materials Engineers	107	17-2131
Materials Scientists	145	19-2032
Mathematical Science Occupations, All Other	87	15-2099
Mathematical Science Teachers, Postsecondary	206	25-1022
Mathematical Technicians	86	15-2091
Mathematicians	83	15-2021
Meat, Poultry, & Fish Cutters & Trimmers	708	51-3022
Mechanical Door Repairers	669	49-9011
Mechanical Drafters	115	17-3013
Mechanical Engineering Technicians	123	17-3027
Mechanical Engineers	108	17-2141
Media & Communication Equip. Workers, All Other	312	27-4099
Media & Communication Workers, All Other	304	27-3099
Medical & Clinical Laboratory Technicians	345	29-2012
Medical & Clinical Laboratory Technologists	344	29-2011
Medical & Health Services Managers	32	11-9111
Medical & Public Health Social Workers	181	21-1022
Medical Appliance Technicians	789	51-9082
Medical Assistants	381	31-9092
Medical Equipment Preparers	382	31-9093
Medical Equipment Repairers	681	49-9062
Medical Records & Health Information Technicians	359	29-2071
Medical Scientists, Except Epidemiologists	139	19-1042
Medical Secretaries	544	43-6013
Medical Transcriptionists	383	31-9094
Meeting & Convention Planners	54	13-1121
Mental Health & Substance Abuse Social Workers	182	21-1023
Mental Health Counselors	177	21-1014
Merchandise Displayers & Window Trimmers	279	27-1026
Metal Workers & Plastic Workers, All Other	739	51-4199
Metal-Refining Furnace Operators & Tenders	725	51-4051
Meter Readers, Utilities	534	43-5041
Microbiologists	133	19-1022
Mid School Teachers, Ex Special & Vocational Ed	245	25-2022

## Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA SOC CODE
Military Enlisted Tactical Operations & Air/Weapons Spe	881	55-3019
Military Officer Special & Tactical Operations Leader	869	55-1019
Military Specific Occupations	861	55-0000
Mill & Plan Mach Set, Ops, & Tend, Metal & Plastic	723	51-4035
Millwrights	676	49-9044
Mine Cutting & Channeling Machine Operators	632	47-5042
Mining & Geological Engrs, Incl Mining Safety Engrs	109	17-2151
Mining Machine Operators, All Other	633	47-5049
Mix & Blend Mach Setters, Ops, & Tenders	781	51-9023
Mobile Heavy Equipt Mechanics, Except Engines	660	49-3042
Model Makers, Metal & Plastic	727	51-4061
Model Makers, Wood	763	51-7031
Models	493	41-9012
Mold, Core, & Cast Mach, Set, Ops & Tend, Metl & Plas	730	51-4072
Molders, Shapers, & Casters, Except Metal & Plastic	802	51-9195
Motion Picture Projectionists	449	39-3021
Motor Vehicle Operators, All Other	823	53-3099
Motorboat Mechanics	662	49-3051
Motorboat Operators	833	53-5022
Motorcycle Mechanics	663	49-3052
Mult MachTool Set, Ops, & Tend,Metal & Plastic	731	51-4081
Multi-Media Artists & Animators	272	27-1014
Museum Technicians & Conservators	258	25-4013
Music Directors & Composers	290	27-2041
Musical Instrument Repairers & Tuners	682	49-9063
Musicians & Singers	291	27-2042
Natural Sciences Managers	33	11-9121
Network & Computer Systems Administrators	79	15-1071
Network Systems & Data Communications Analysts	80	15-1081
New Accounts Clerks	523	43-4141
News Analysts, Reporters & Corres, All Other	298	27-3029
Nonfarm Animal Caretakers	445	39-2021
Nuclear Engineers	110	17-2161
Nuclear Medicine Technologists	349	29-2033
Nuclear Power Reactor Operators	768	51-8011
Nuclear Technicians	167	19-4051
Numerical Tool & Process Control Programmers	715	51-4012
Nursing Aides, Orderlies, & Attendants	373	31-1012
Nursing Instructors & Teachers, Postsecondary	225	25-1072
Obstetricians & Gynecologists	326	29-1064
Occupation Unknown	882	99-9999
Occupational Health & Safety Specialists	363	29-9011
Occupational Health & Safety Technicians	364	29-9012
Occupational Therapist Aides	376	31-2012
Occupational Therapist Assistants	375	31-2011
Occupational Therapists	335	29-1122
Occupl Hlth & Safety Specs & Techs, All Other	365	29-9019
Office & Administrative Support Occupations	500	43-0000
Office & Administrative Support Workers, All Other	556	43-9199
Office Clerks, General	552	43-9061

## Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA SOC CODE
Office Machine Operators, Except Computer	553	43-9071
Operating Engineers & Oth Const Equipment Ops	592	47-2073
Operations Research Analysts	84	15-2031
Ophthalmic Laboratory Technicians	790	51-9083
Opticians, Dispensing	360	29-2081
Optometrists	321	29-1041
Oral & Maxillofacial Surgeons	316	29-1022
Order Clerks	524	43-4151
Orthodontists	317	29-1023
Orthotists & Prosthetists	361	29-2091
Outdoor Power Equipt & Other Small Eng Mechanic	664	49-3053
Packaging & Filling Machine Operators & Tenders	791	51-9111
Packers & Packagers, Hand	852	53-7064
Painters, Construction & Maintenance	600	47-2141
Painters, Transportation Equipment	793	51-9122
Painting, Coating, & Decorating Workers	794	51-9123
Paper Goods Machine Setters, Ops, & Tenders	803	51-9196
Paperhanglers	601	47-2142
Paralegals & Legal Assistants	197	23-2011
Parking Enforcement Workers	399	33-3041
Parking Lot Attendants	837	53-6021
Parts Salespersons	483	41-2022
Patternmakers, Metal & Plastic	728	51-4062
Patternmakers, Wood	764	51-7032
Paving, Surfacing, & Tamping Equipment Operators	590	47-2071
Payroll & Timekeeping Clerks	509	43-3051
Pediatricians, General	327	29-1065
Personal & Home Care Aides	471	39-9021
Personal Care & Service Occupations	440	39-0000
Personal Care & Service Workers, All Other	475	39-9099
Personal Financial Advisors	61	13-2052
Pest Control Workers	434	37-2021
Pesticide Handlers, Spray, & Applicators, Vegetation	436	37-3012
Petrol Pump System Ops, Refinery Ops, & Gaugers	775	51-8093
Petroleum Engineers	111	17-2171
Pharmacists	322	29-1051
Pharmacy Aides	384	31-9095
Pharmacy Technicians	353	29-2052
Philosophy & Religion Teachers, Postsecondary	236	25-1126
Photographers	309	27-4021
Photographic Process Workers	795	51-9131
Photographic Processing Machine Operators	796	51-9132
Physical Scientists, All Other	149	19-2099
Physical Therapist Aides	378	31-2022
Physical Therapist Assistants	377	31-2021
Physical Therapists	336	29-1123
Physician Assistants	331	29-1071
Physicians & Surgeons, All Other	330	29-1069
Physicists	142	19-2012
Physics Teachers, Postsecondary	215	25-1054

## Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA SOC CODE
Pile-Driver Operators	591	47-2072
Pipelayers	602	47-2151
Plant & System Operators, All Other	776	51-8099
Plasterers & Stucco Masons	604	47-2161
Plate & Coat Mach Set, Ops, & Tend, Metal & Plastic	737	51-4193
Plumbers, Pipefitters, & Steamfitters	603	47-2152
Podiatrists	332	29-1081
Police & Sheriff's Patrol Officers	400	33-3051
Police, Fire, & Ambulance Dispatchers	532	43-5031
Political Science Teachers, Postsecondary	220	25-1065
Political Scientists	161	19-3094
Postal Serv Mail Sort, Processors, & Processing	537	43-5053
Postal Service Clerks	535	43-5051
Postal Service Mail Carriers	536	43-5052
Postmasters & Mail Superintendents	34	11-9131
Postsecondary Teachers, All Other	241	25-1199
Pourers & Casters, Metal	726	51-4052
Power Distributors & Dispatchers	769	51-8012
Power Plant Operators	770	51-8013
Precision Instrument & Equipmt Repairers, All Other	684	49-9069
Prepress Technicians & Workers	743	51-5022
Preschool Teachers, Except Special Education	242	25-2011
Pressers, Textile, Garment, & Related Materials	747	51-6021
Printing Machine Operators	744	51-5023
Printing Workers, All Other	745	51-5099
Private Detectives & Investigators	403	33-9021
Probation Offcrs & Correctional Treatment Specialis	185	21-1092
Procurement Clerks	510	43-3061
Producers & Directors	284	27-2012
Production Occupations	694	51-0000
Production Workers, All Other	806	51-9199
Production, Planning, & Expediting Clerks	538	43-5061
Professional & Related Occupations	70	15-29-0000
Professional & Related Occupations	88	15-29-0000
Professional & Related Occupations, All Other	369	15-29-9999
Proofreaders & Copy Markers	554	43-9081
Property, Real Estate, & Community Assn Mgrs	35	11-9141
Prosthodontists	318	29-1024
Protective Service Occupations	387	33-0000
Protective Service Workers, All Other	408	33-9099
Psychiatric Aides	374	31-1013
Psychiatric Technicians	354	29-2053
Psychiatrists	328	29-1066
Psychologists, All Other	155	19-3039
Psychology Teachers, Postsecondary	221	25-1066
Public Address System & Other Announcers	294	27-3012
Public Relations Managers	10	11-2031
Public Relations Specialists	299	27-3031
Pump Operators, Except Wellhead Pumpers	854	53-7072
Purch Agents, Ex Wholesale, Retail, & Farm Prods	42	13-1023

## Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA SOC CODE
Purchasing Agents & Buyers, Farm Products	40	13-1021
Purchasing Managers	18	11-3061
Radar & Sonar Technicians	879	55-3017
Radiation Therapists	337	29-1124
Radio & Television Announcers	293	27-3011
Radio Mechanics	643	49-2021
Radio Operators	307	27-4013
Radiologic Technologists & Technicians	350	29-2034
Rail Car Repairers	661	49-3043
Rail Transportation Workers, All Other	830	53-4099
Rail Yard Engineers, Dinkey Operators, & Hostlers	826	53-4013
Railroad Brake, Signal, & Switch Operators	827	53-4021
Railroad Conductors & Yardmasters	828	53-4031
Rail-Track Laying & Maintenance Equipment Ops	621	47-4061
Real Estate Brokers	494	41-9021
Real Estate Sales Agents	495	41-9022
Receptionists & Information Clerks	526	43-4171
Recreation & Fitness Studies Teachrs, Postsecond	239	25-1193
Recreation Workers	473	39-9032
Recreational Therapists	338	29-1125
Recreational Vehicle Service Technicians	666	49-3092
Refractory Materials Repairers, Ex Brickmasons	677	49-9045
Refuse & Recyclable Material Collectors	856	53-7081
Registered Nurses	333	29-1111
Rehabilitation Counselors	178	21-1015
Reinforcing Iron & Rebar Workers	605	47-2171
Religious Workers, All Other	190	21-2099
Reporters & Correspondents	297	27-3022
Reservation & Trans Ticket Agents & Travel Clerks	527	43-4181
Residential Advisors	474	39-9041
Respiratory Therapists	339	29-1126
Respiratory Therapy Technicians	355	29-2054
Retail Salespersons	484	41-2031
Riggers	690	49-9096
Rock Splitters, Quarry	634	47-5051
Rolling Mach Setters, Ops, & Tends, Metal & Plastic	718	51-4023
Roof Bolters, Mining	635	47-5061
Roofers	606	47-2181
Rotary Drill Operators, Oil & Gas	627	47-5012
Roustabouts, Oil & Gas	636	47-5071
Sailors & Marine Oilers	831	53-5011
Sales & Related Occupations	477	41-0000
Sales & Related Workers, All Other	499	41-9099
Sales Engineers	496	41-9031
Sales Managers	9	11-2022
Sales Representatives, Services, All Other	489	41-3099
Sales Reps, Whlesale & Mfg, Tech & Scientific Prods	490	41-4011
Sales Reps, Whlsale & Mfg, Ex Tech & Scientific Prods	491	41-4012
Sawing Mach Setters, Ops, & Tenders, Wood	765	51-7041
Secondary School Teachers, Ex Special & Voc Ed	247	25-2031

## Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA SOC CODE
Secretaries, Admin Assist, & Oth Off Suprt Wrkers, All O	557	43-9999
Secretaries, Except Legal, Medical, & Executive	545	43-6014
Securities, Commodities, & Financial Serv Sales Agts	487	41-3031
Security & Fire Alarm Systems Installers	652	49-2098
Security Guards	405	33-9032
Segmental Pavers	623	47-4091
Self-Enrichment Education Teachers	253	25-3021
Semiconductor Processors	797	51-9141
Separate, Filter, Clarify, Precipitate, & Still Mach Se	778	51-9012
Septic Tank Servicers & Sewer Pipe Cleaners	622	47-4071
Service Occupations	370	31-39-0000
Service Occupations, All Other	476	31-39-9999
Service Station Attendants	838	53-6031
Service Unit Operators, Oil, Gas, & Mining	628	47-5013
Set & Exhibit Designers	280	27-1027
Sewers, Hand	751	51-6051
Sewing Machine Operators	748	51-6031
Shampooers	462	39-5093
Sheet Metal Workers	607	47-2211
Ship Engineers	834	53-5031
Shipping, Receiving, & Traffic Clerks	539	43-5071
Shoe & Leather Workers & Repairers	749	51-6041
Shoe Machine Operators & Tenders	750	51-6042
Shuttle Car Operators	857	53-7111
Signal & Track Switch Repairers	691	49-9097
Skin Care Specialists	463	39-5094
Slaughterers & Meat Packers	709	51-3023
Slot Key Persons	442	39-1012
Social & Community Service Managers	36	11-9151
Social & Human Service Assistants	186	21-1093
Social Science Research Assistants	168	19-4061
Social Sciences Teachers, Postsecondary, All Other	223	25-1069
Social Scientists & Related Workers, All Other	162	19-3099
Social Work Teachers, Postsecondary	230	25-1113
Social Workers, All Other	183	21-1029
Sociologists	156	19-3041
Sociology Teachers, Postsecondary	222	25-1067
Soil & Plant Scientists	130	19-1013
Sound Engineering Technicians	308	27-4014
Special Ed Teachers, Preschool, Kindergarten, &	249	25-2041
Special Education Teachers, Middle School	250	25-2042
Special Education Teachers, Secondary School	251	25-2043
Special Forces	880	55-3018
Special Forces Officers	868	55-1017
Speech-Language Pathologists	340	29-1127
Stationary Engineers & Boiler Operators	771	51-8021
Statistical Assistants	555	43-9111
Statisticians	85	15-2041
Stock Clerks & Order Fillers	540	43-5081
Stonemasons	581	47-2022

## Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA SOC CODE
Structural Iron & Steel Workers	608	47-2221
Structural Metal Fabricators & Fitters	701	51-2041
Substance Abuse & Behavioral Disorder Counselors	174	21-1011
Subway & Streetcar Operators	829	53-4041
Surgeons	329	29-1067
Surgical Technologists	356	29-2055
Survey Researchers	152	19-3022
Surveying & Mapping Technicians	125	17-3031
Surveyors	93	17-1022
Switchboard Operators, Including Answering Service	502	43-2011
Tailors, Dressmakers, & Custom Sewers	752	51-6052
Tank Car, Truck, & Ship Loaders	858	53-7121
Tapers	594	47-2082
Tax Examiners, Collectors, & Revenue Agents	66	13-2081
Tax Preparers	67	13-2082
Taxi Drivers & Chauffeurs	822	53-3041
Teacher Assistants	265	25-9041
Teachers & Instructors, All Other	254	25-3099
Teachers, Primary, Secondary, & Adult, All Other	255	25-3999
Team Assemblers	703	51-2092
Technical Writers	301	27-3042
Telecomm Equipt Install & Repair, Ex Line Install	644	49-2022
Telecommunications Line Installers & Repairers	679	49-9052
Telemarketers	497	41-9041
Telephone Operators	503	43-2021
Tellers	511	43-3071
Terrazzo Workers & Finishers	588	47-2053
Textile Bleaching & Dyeing Mach Ops & Tenders	753	51-6061
Textile Cutting Machine Setters, Ops, & Tenders	754	51-6062
Textile Knit & Weave Mach Setters, Ops & Tenders	755	51-6063
Textile Wind, Twist, & Draw Out Mach Set, Ops & Tend	756	51-6064
Textile, Apparel, & Furnishings Workers, All Other	760	51-6099
Therapists, All Other	341	29-1129
Tile & Marble Setters	586	47-2044
Timing Device Assemblers, Adjusters, & Calibrators	704	51-2093
Tire Builders	804	51-9197
Tire Repairers & Changers	667	49-3093
Title Examiners, Abstractors, & Searchers	200	23-2093
Tool & Die Makers	732	51-4111
Tool Grinders, Filers, & Sharpeners	738	51-4194
Tour Guides & Escorts	466	39-6021
Traffic Technicians	839	53-6041
Training & Development Managers	15	11-3042
Training & Development Specialists	50	13-1073
Trans & Material Moving Occupations, All Other	860	53-9999
Trans Attendants, Ex Flight Attendants & Bag Porters	469	39-6032
Transit & Railroad Police	401	33-3052
Transportation & Material Moving Occupations	807	53-0000
Transportation Inspectors	840	53-6051
Transportation Workers, All Other	841	53-6099

## Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA SOC CODE
Transportation, Storage, & Distribution Managers	19	11-3071
Travel Agents	488	41-3041
Travel Guides	467	39-6022
Tree Trimmers & Pruners	437	37-3013
Truck Drivers, Heavy & Tractor-Trailer	820	53-3032
Truck Drivers, Light or Delivery Services	821	53-3033
Umpires, Referees, & Other Sports Officials	287	27-2023
Upholsterers	759	51-6093
Urban & Regional Planners	157	19-3051
Ushers, Lobby Attendants, & Ticket Takers	450	39-3031
Veh & Mobile Equipt Mechs, Install, & Repair, All Oth	668	49-3099
Veterinarians	342	29-1131
Veterinary Assistants & Lab Animal Caretakers	385	31-9096
Veterinary Technologists & Technicians	357	29-2056
Vocational Education Teachers, Middle School	246	25-2023
Vocational Education Teachers, Postsecondary	240	25-1194
Vocational Education Teachers, Secondary School	248	25-2032
Waiters & Waitresses	422	35-3031
Watch Repairers	683	49-9064
Water & Liquid Waste Treat Plant & System Ops	772	51-8031
Water Transportation Workers, All Other	835	53-5099
Weigh, Measure, Check, & Sample, Recordkeep	541	43-5111
Weld, Solder, & Braze Mach Setters, Ops, & Tenders	734	51-4122
Welders, Cutters, Solderers, & Brazers	733	51-4121
Wellhead Pumpers	855	53-7073
Wholesale & Retail Buyers, Except Farm Products	41	13-1022
Woodwork Mach Setters, Ops, & Tenders, Ex Sawing	766	51-7042
Woodworkers, All Other	767	51-7099
Word Processors & Typists	548	43-9022
Writers & Authors	302	27-3043
Zoologists & Wildlife Biologists	134	19-1023